

# EV Project Electric Vehicle Charging Infrastructure Summary Report

Region: ALL

Report period: April 2012 through June 2012

Number of EV Project vehicles in region: 3325



## Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units <sup>1</sup>	3,338	0	1,483	0	4,821
Number of charging events <sup>2</sup>	223,930	0	27,023	0	250,953
Electricity consumed (AC MWh)	1,885.86	0.00	208.63	0.00	2,094.49
Percent of time with a vehicle connected to charging unit	36%	0%	6%	0%	28%
Percent of time with a vehicle drawing power from charging unit	7%	0%	2%	0%	6%

Number of Charge Events



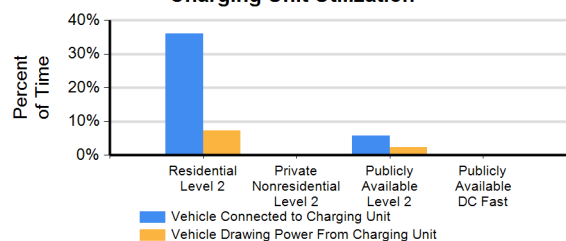
- Residential Level 2
- Private Nonresidential Level 2
- Publicly Available Level 2
- Publicly Available DC Fast

Electricity Consumed

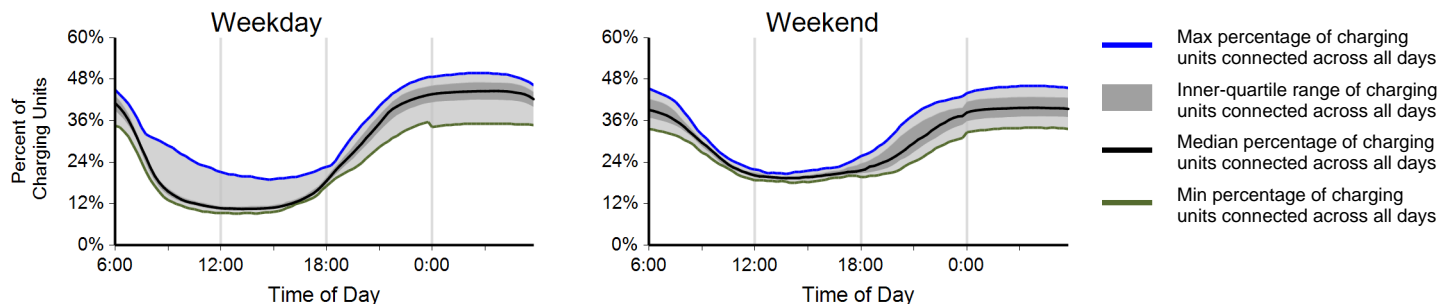


- Residential Level 2
- Private Nonresidential Level 2
- Publicly Available Level 2
- Publicly Available DC Fast

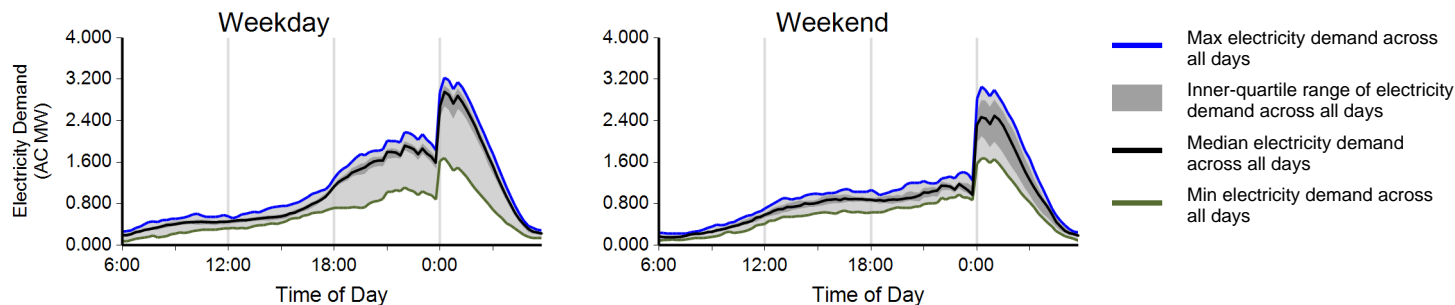
Charging Unit Utilization



## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>


<sup>1</sup> Includes all charging units that were in use by the end of the reporting period

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

<sup>3</sup> Considers the connection status of all charging units every minute

<sup>4</sup> Based on 15 minute rolling average power output from all charging units

# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

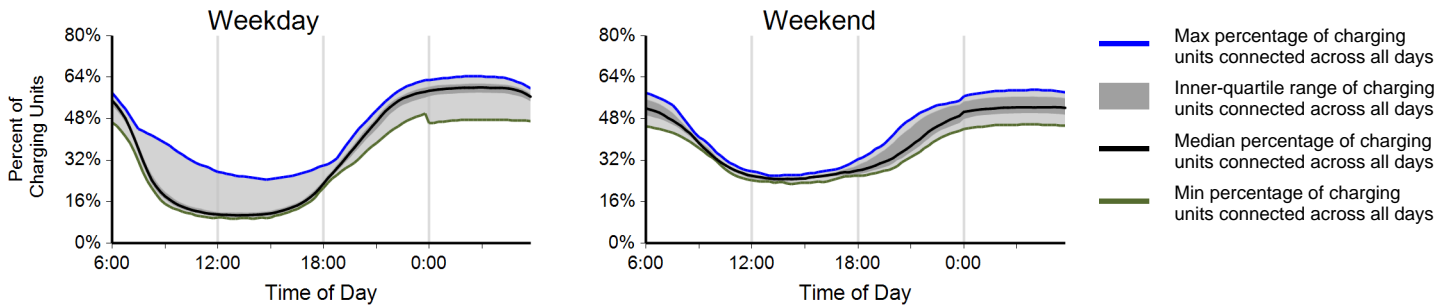
Region: ALL

Report period: April 2012 through June 2012

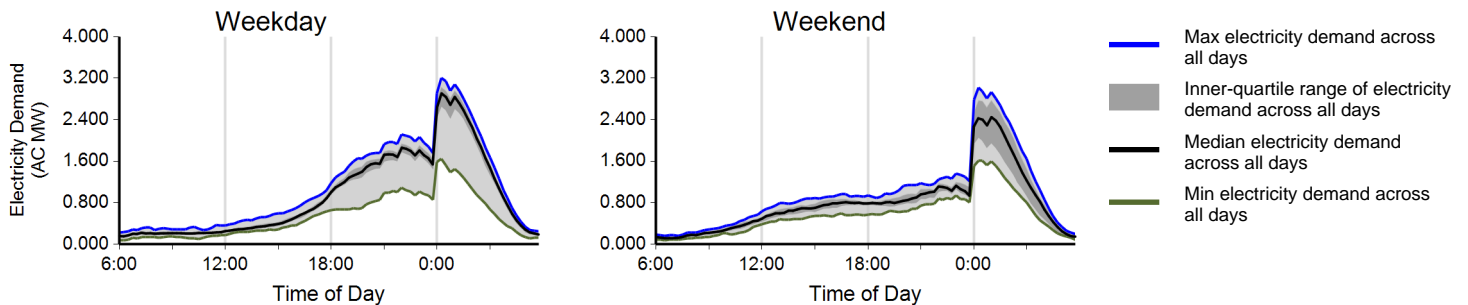
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	164,516	59,414	223,930
Electricity consumed (AC MWh)	1,400.85	485.01	1,885.86
Percent of time with a vehicle connected to EVSE	35%	38%	36%
Percent of time with a vehicle drawing power from EVSE	8%	7%	7%
Average number of charging events started per EVSE per day	0.78	0.70	0.75

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: ALL

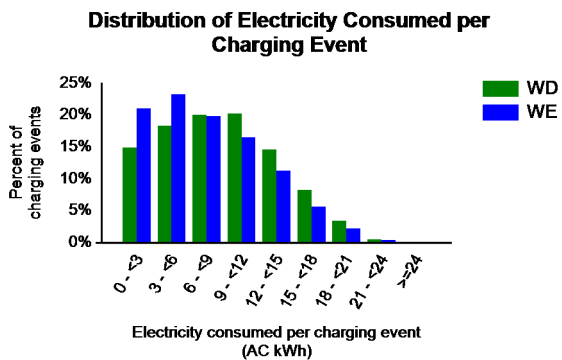
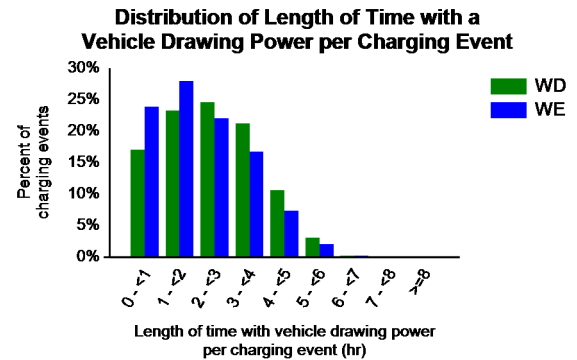
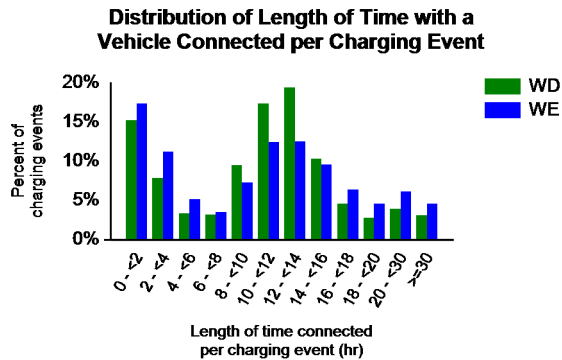
Report period: April 2012 through June 2012

## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	84%	16%	0%
Percent of electricity consumed	88%	12%	0%

## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	11.6	11.6	11.6
Average length of time with vehicle drawing power per charging event (hr)	2.5	2.1	2.4
Average electricity consumed per charging event (AC kWh)	8.7	7.5	8.4



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

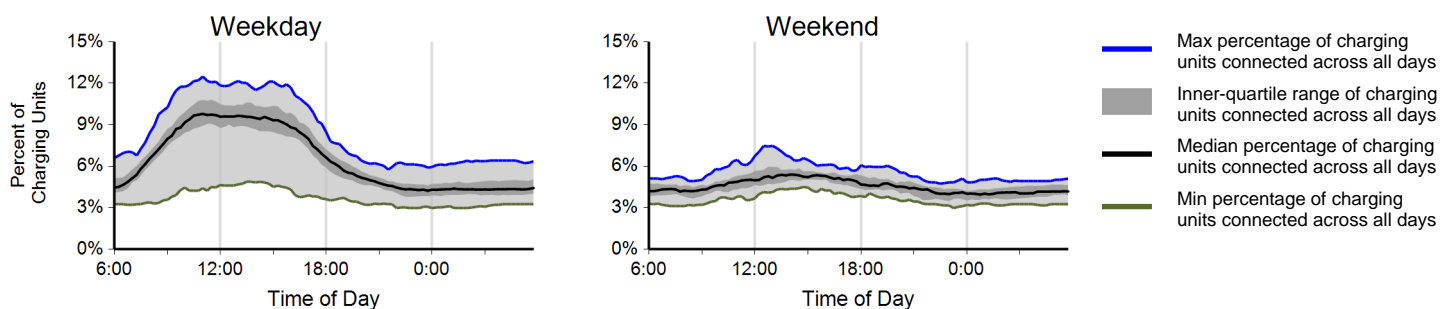
Region: ALL

Report period: April 2012 through June 2012

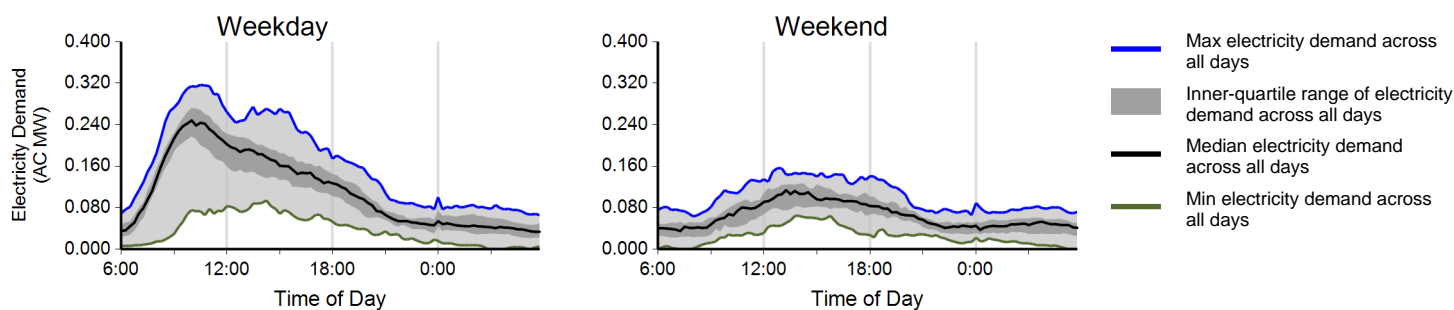
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	21,972	5,051	27,023
Electricity consumed (AC MWh)	170.00	38.63	208.63
Percent of time with a vehicle connected to EVSE	6%	4%	6%
Percent of time with a vehicle drawing power from EVSE	3%	2%	2%
Average number of charging events started per EVSE per day	0.28	0.16	0.25

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: ALL

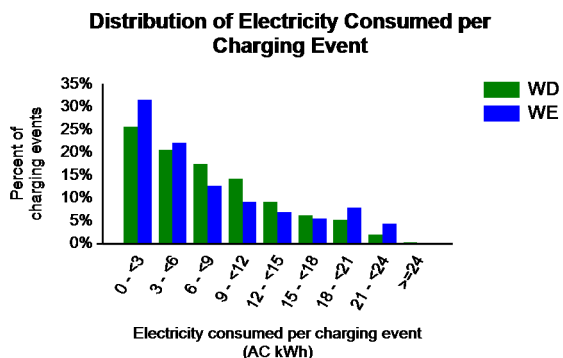
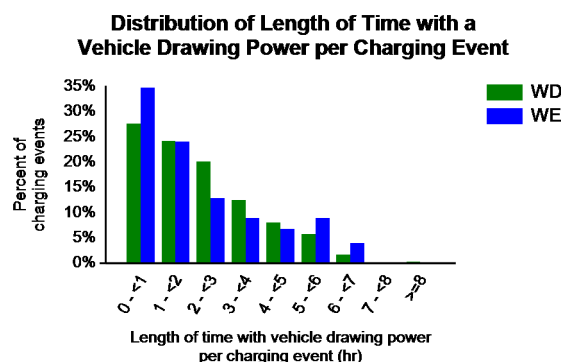
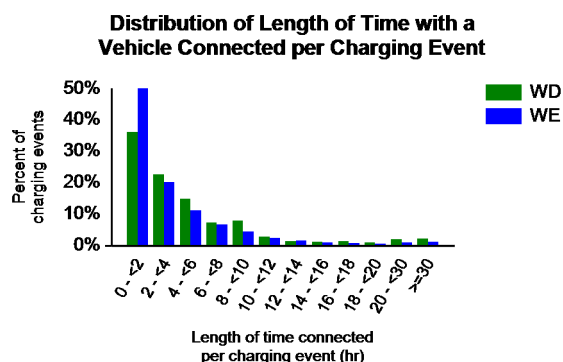
Report period: April 2012 through June 2012

## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	28%	3%	69%
Percent of electricity consumed	23%	2%	75%

## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	6.1	4.1	5.7
Average length of time with vehicle drawing power per charging event (hr)	2.3	2.2	2.3
Average electricity consumed per charging event (AC kWh)	7.7	7.7	7.7



## EV Project Electric Vehicle Charging Infrastructure Summary Report

Region: Phoenix, AZ Metropolitan Area

Report period: April 2012 through June 2012

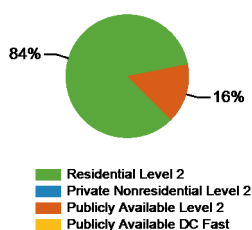
Number of EV Project vehicles in region: 188



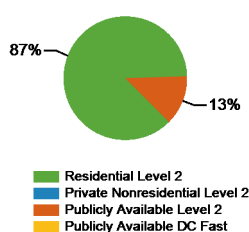
### Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units <sup>1</sup>	189	0	233	0	422
Number of charging events <sup>2</sup>	14,239	0	2,635	0	16,874
Electricity consumed (AC MWh)	108.45	0.00	16.20	0.00	124.65
Percent of time with a vehicle connected to charging unit	37%	0%	3%	0%	20%
Percent of time with a vehicle drawing power from charging unit	8%	0%	1%	0%	5%

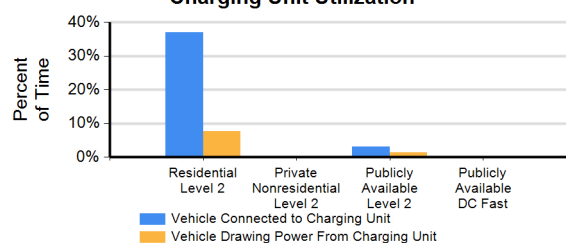
Number of Charge Events



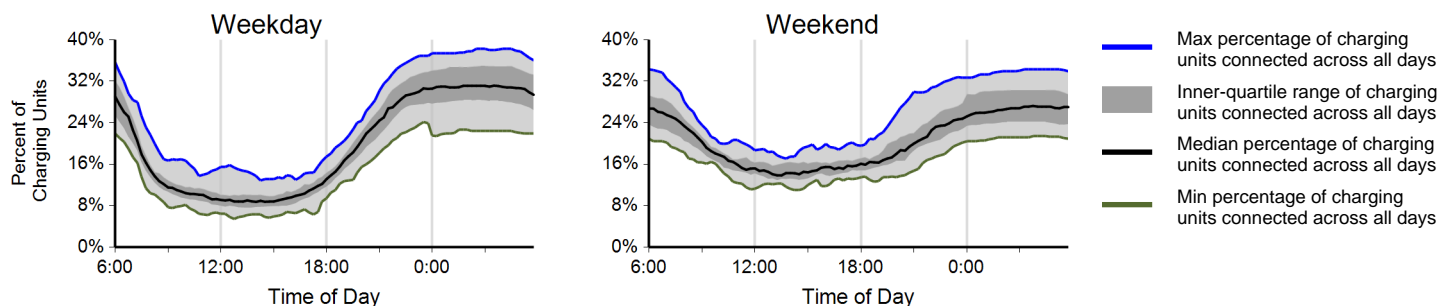
Electricity Consumed



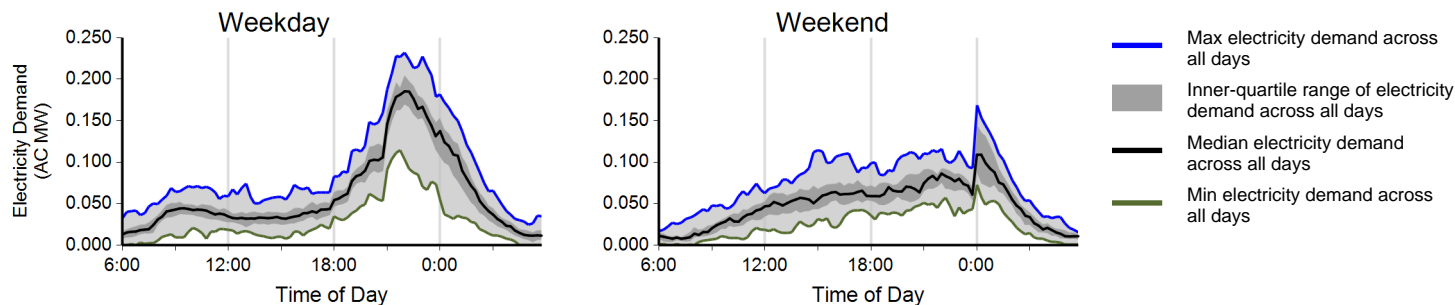
Charging Unit Utilization



### Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



### Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



<sup>1</sup> Includes all charging units that were in use by the end of the reporting period

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

<sup>3</sup> Considers the connection status of all charging units every minute

<sup>4</sup> Based on 15 minute rolling average power output from all charging units

# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

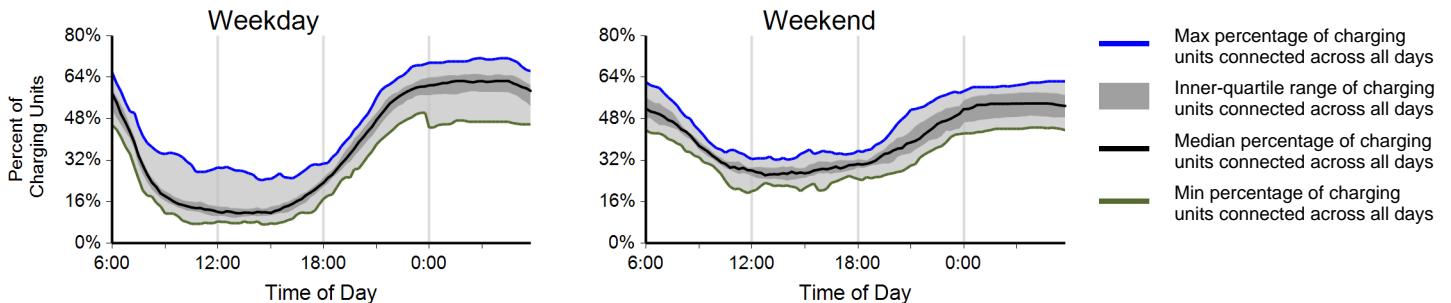
Region: Phoenix, AZ Metropolitan Area

Report period: April 2012 through June 2012

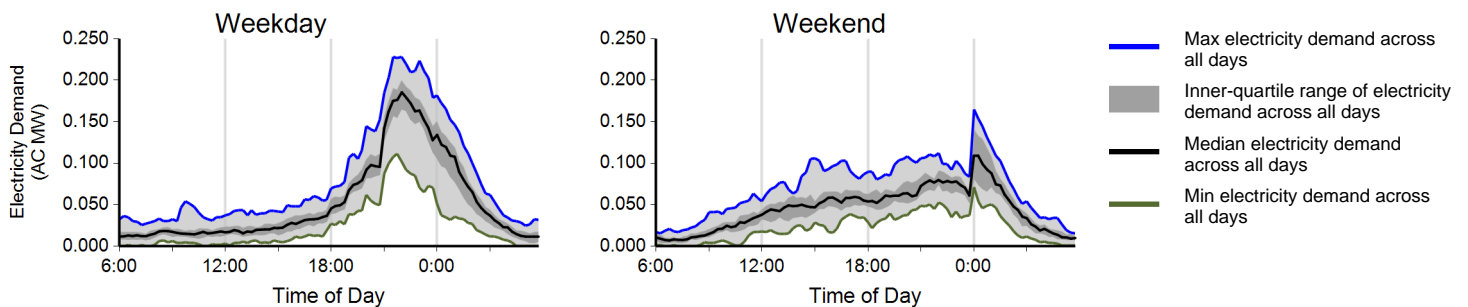
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	10,291	3,948	14,239
Electricity consumed (AC MWh)	80.28	28.17	108.45
Percent of time with a vehicle connected to EVSE	36%	39%	37%
Percent of time with a vehicle drawing power from EVSE	8%	7%	8%
Average number of charging events started per EVSE per day	0.87	0.84	0.86

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Phoenix, AZ Metropolitan Area

Report period: April 2012 through June 2012

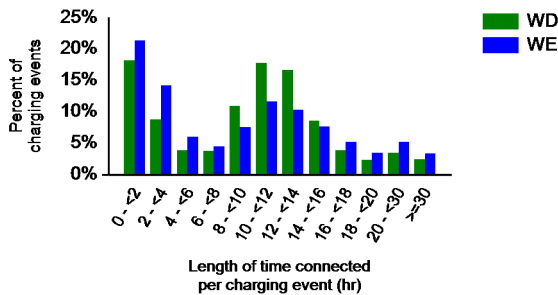
## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	87%	13%	0%
Percent of electricity consumed	88%	12%	0%

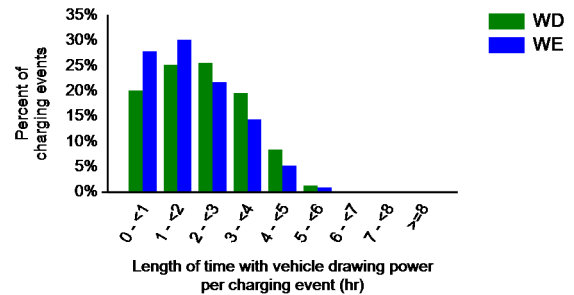
## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	10.6	10.1	10.5
Average length of time with vehicle drawing power per charging event (hr)	2.2	1.9	2.1
Average electricity consumed per charging event (AC kWh)	8.0	6.7	7.6

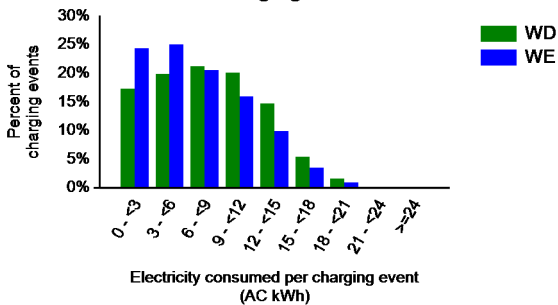
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



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



**Distribution of Electricity Consumed per Charging Event**





# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

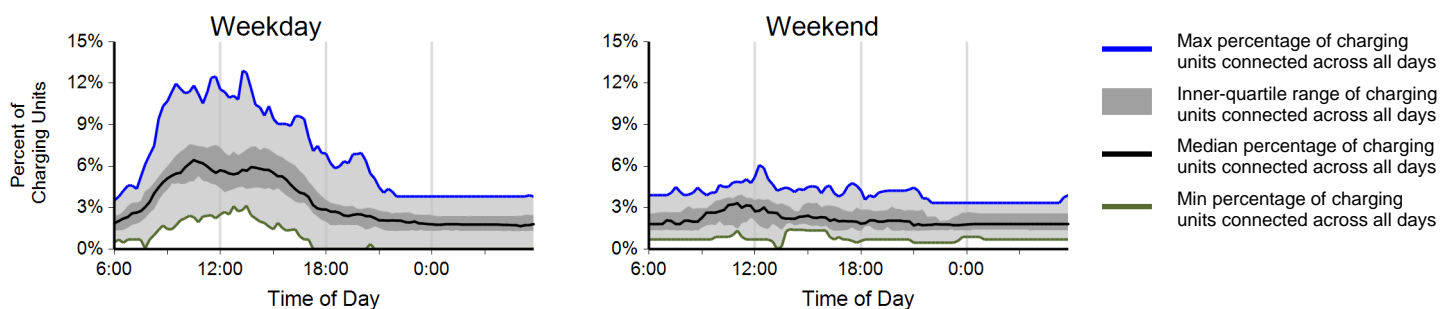
Region: Phoenix, AZ Metropolitan Area

Report period: April 2012 through June 2012

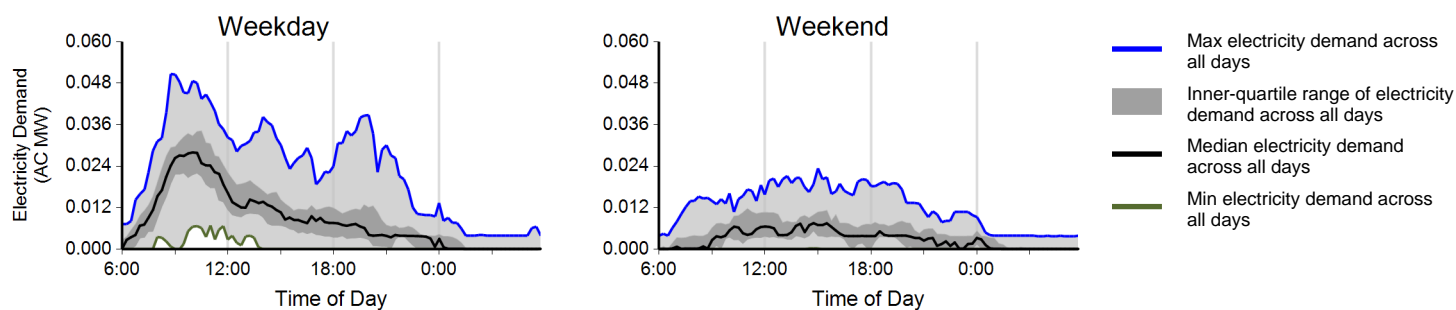
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	2,176	459	2,635
Electricity consumed (AC MWh)	13.87	2.33	16.20
Percent of time with a vehicle connected to EVSE	3%	2%	3%
Percent of time with a vehicle drawing power from EVSE	2%	1%	1%
Average number of charging events started per EVSE per day	0.18	0.09	0.15

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Phoenix, AZ Metropolitan Area

Report period: April 2012 through June 2012

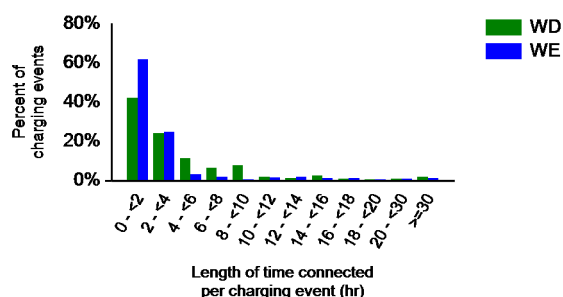
## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	32%	8%	60%
Percent of electricity consumed	35%	6%	59%

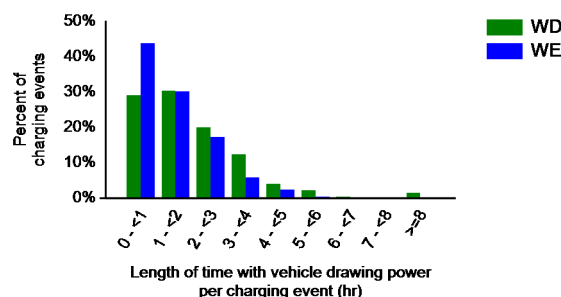
## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	5.1	3.3	4.8
Average length of time with vehicle drawing power per charging event (hr)	2.4	1.4	2.3
Average electricity consumed per charging event (AC kWh)	6.4	4.9	6.1

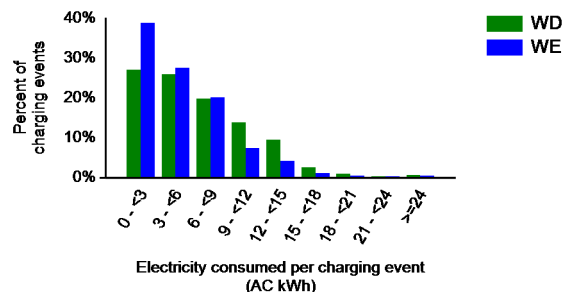
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



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



**Distribution of Electricity Consumed per Charging Event**



## EV Project Electric Vehicle Charging Infrastructure Summary Report

Region: Tucson, AZ Metropolitan Area

Report period: April 2012 through June 2012

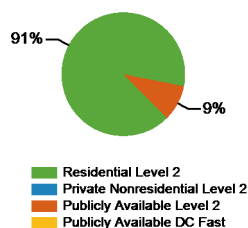
Number of EV Project vehicles in region: 53



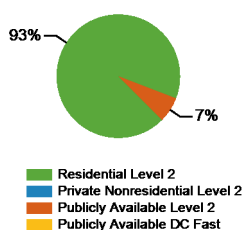
### Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units <sup>1</sup>	53	0	64	0	117
Number of charging events <sup>2</sup>	3,971	0	410	0	4,381
Electricity consumed (AC MWh)	26.80	0.00	1.92	0.00	28.71
Percent of time with a vehicle connected to charging unit	38%	0%	3%	0%	23%
Percent of time with a vehicle drawing power from charging unit	6%	0%	1%	0%	4%

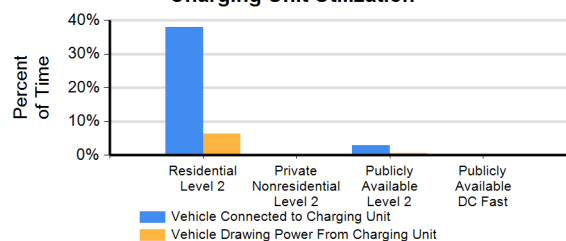
Number of Charge Events



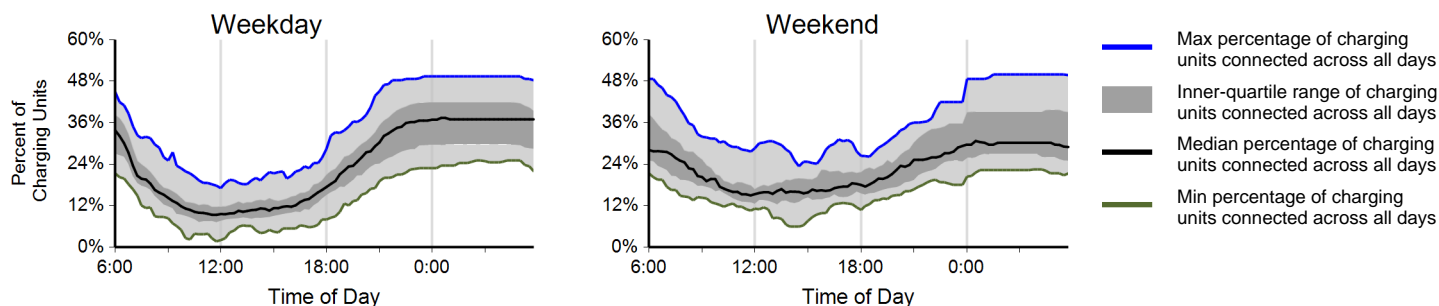
Electricity Consumed



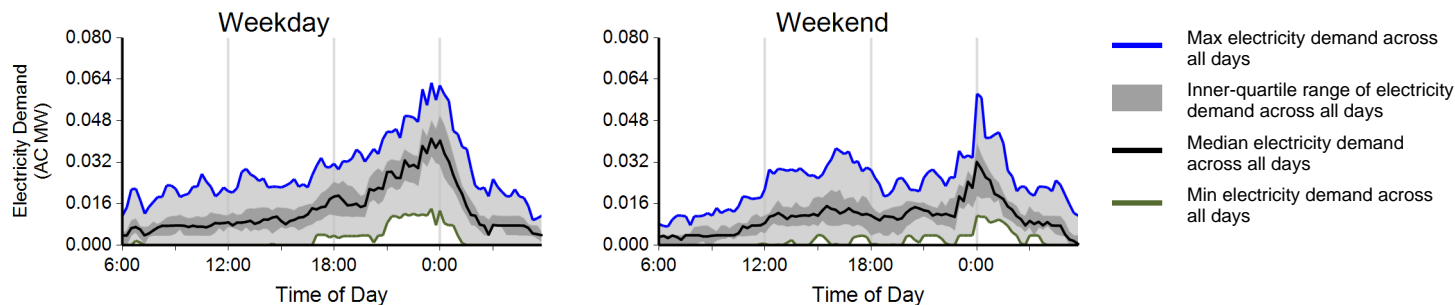
Charging Unit Utilization



### Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



### Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



<sup>1</sup> Includes all charging units that were in use by the end of the reporting period

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

<sup>3</sup> Considers the connection status of all charging units every minute

<sup>4</sup> Based on 15 minute rolling average power output from all charging units

# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

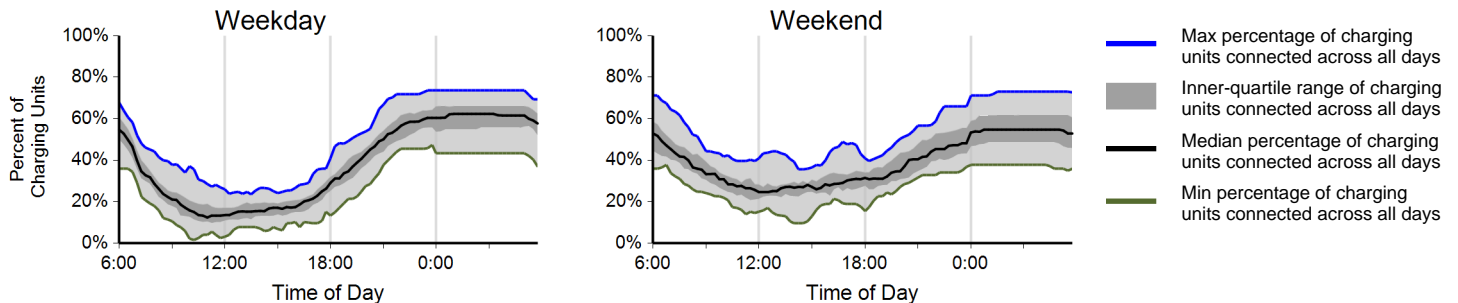
Region: Tucson, AZ Metropolitan Area

Report period: April 2012 through June 2012

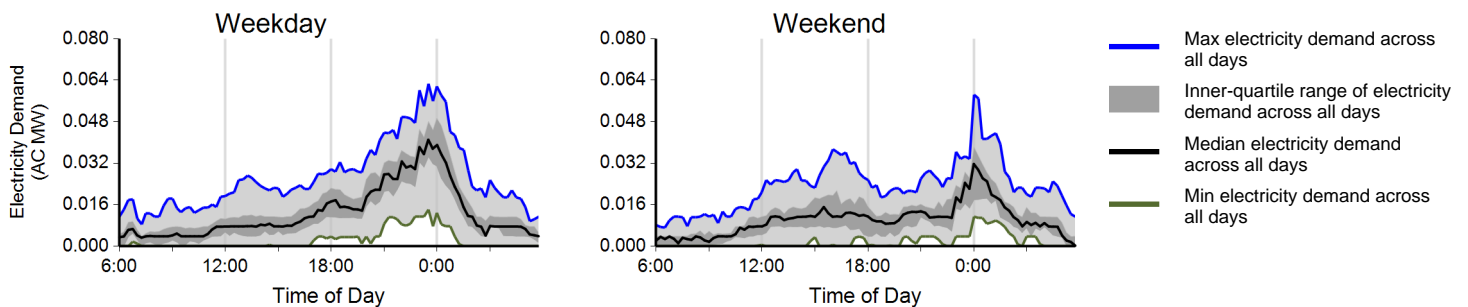
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	2,967	1,004	3,971
Electricity consumed (AC MWh)	20.34	6.45	26.80
Percent of time with a vehicle connected to EVSE	38%	39%	38%
Percent of time with a vehicle drawing power from EVSE	7%	5%	6%
Average number of charging events started per EVSE per day	0.87	0.73	0.83

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Tucson, AZ Metropolitan Area

Report period: April 2012 through June 2012

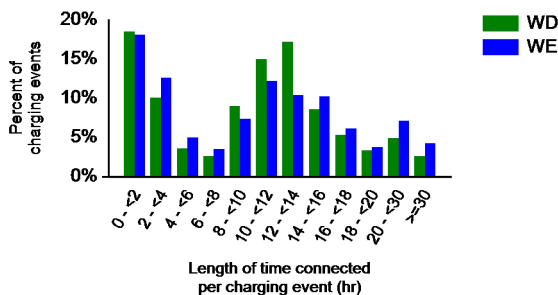
## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	93%	7%	0%
Percent of electricity consumed	94%	6%	0%

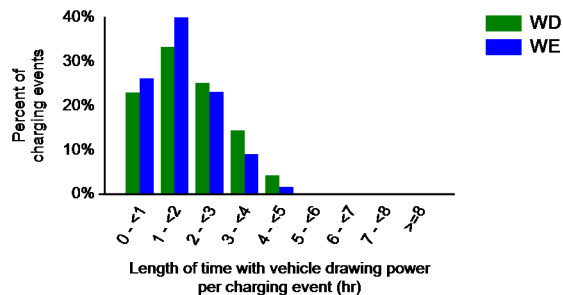
## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	10.9	11.5	11.1
Average length of time with vehicle drawing power per charging event (hr)	1.9	1.7	1.9
Average electricity consumed per charging event (AC kWh)	7.0	6.1	6.7

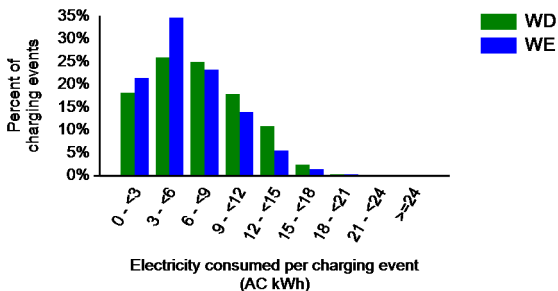
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



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



**Distribution of Electricity Consumed per Charging Event**



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

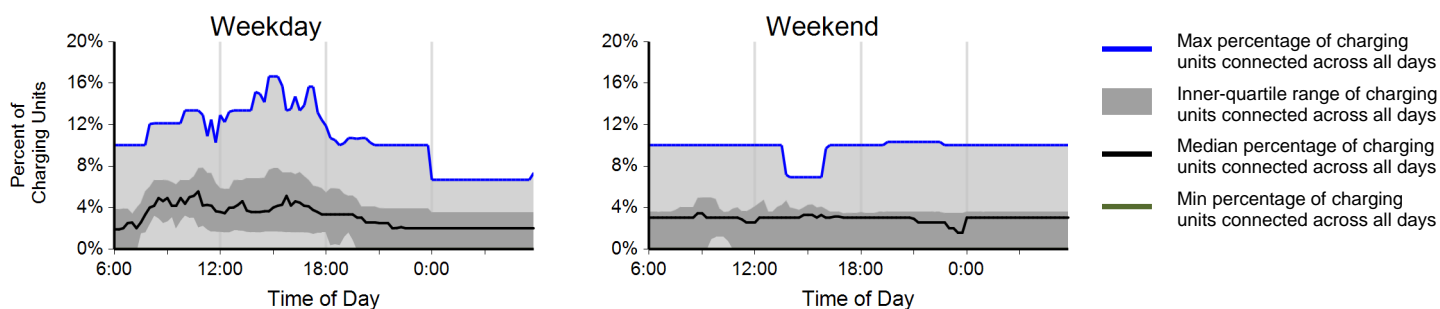
Region: Tucson, AZ Metropolitan Area

Report period: April 2012 through June 2012

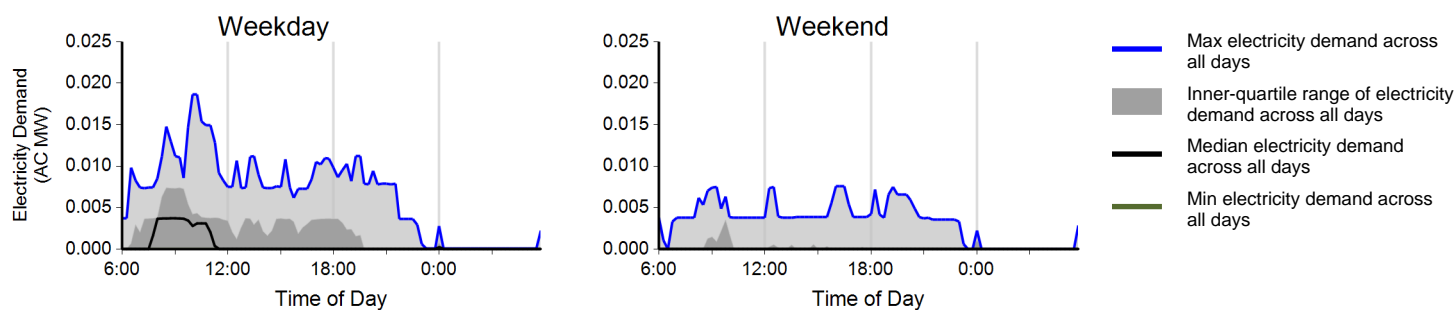
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	357	53	410
Electricity consumed (AC MWh)	1.65	0.26	1.92
Percent of time with a vehicle connected to EVSE	3%	3%	3%
Percent of time with a vehicle drawing power from EVSE	1%	0%	1%
Average number of charging events started per EVSE per day	0.14	0.05	0.11

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Tucson, AZ Metropolitan Area

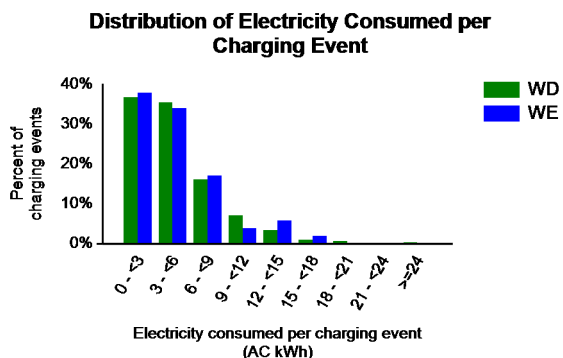
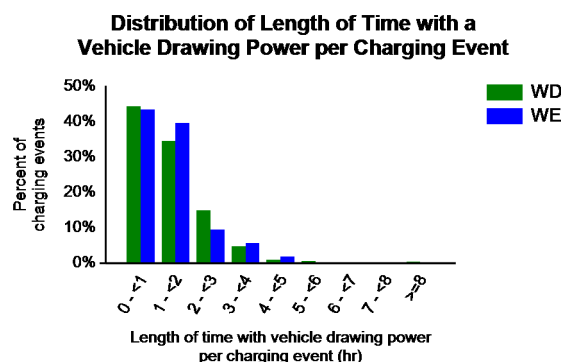
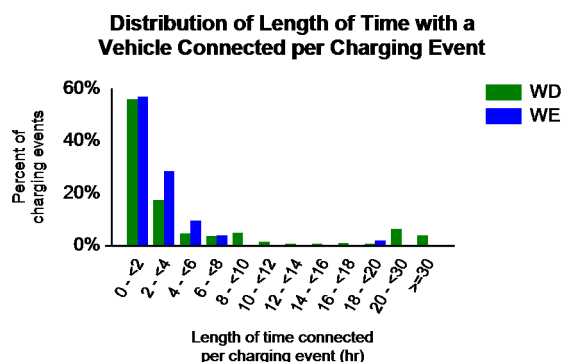
Report period: April 2012 through June 2012

## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	36%	0%	64%
Percent of electricity consumed	33%	0%	67%

## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	6.9	2.3	6.3
Average length of time with vehicle drawing power per charging event (hr)	1.3	1.4	1.3
Average electricity consumed per charging event (AC kWh)	4.6	4.9	4.7



# EV Project Electric Vehicle Charging Infrastructure Summary Report

Region: Los Angeles, CA Metropolitan Area

Report period: April 2012 through June 2012

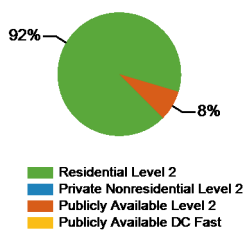
Number of EV Project vehicles in region: 282



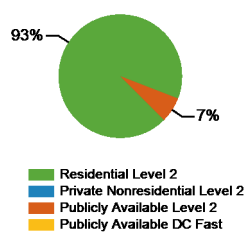
## Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units <sup>1</sup>	287	0	98	0	385
Number of charging events <sup>2</sup>	17,075	0	1,465	0	18,540
Electricity consumed (AC MWh)	157.70	0.00	11.20	0.00	168.90
Percent of time with a vehicle connected to charging unit	32%	0%	5%	0%	27%
Percent of time with a vehicle drawing power from charging unit	7%	0%	2%	0%	6%

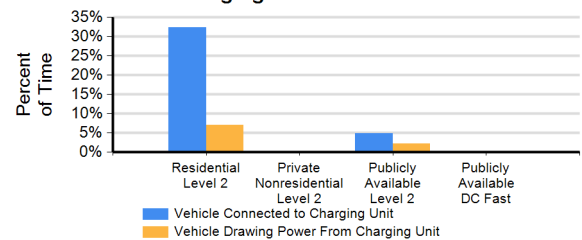
Number of Charge Events



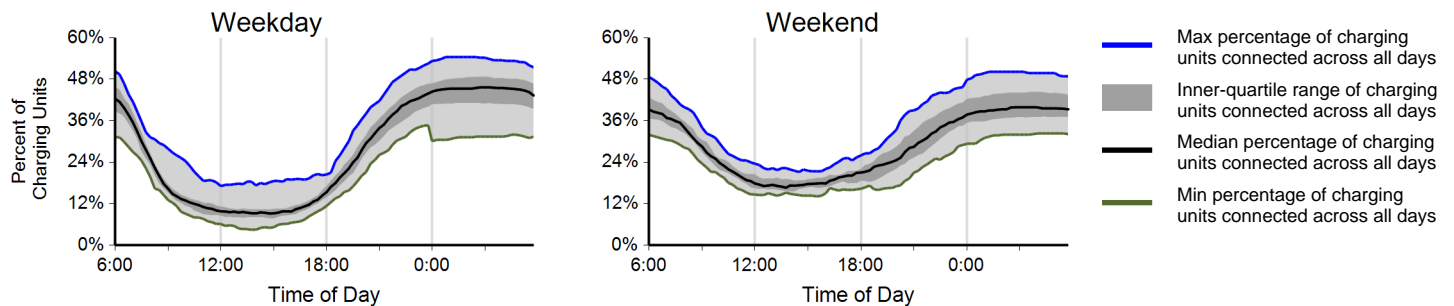
Electricity Consumed



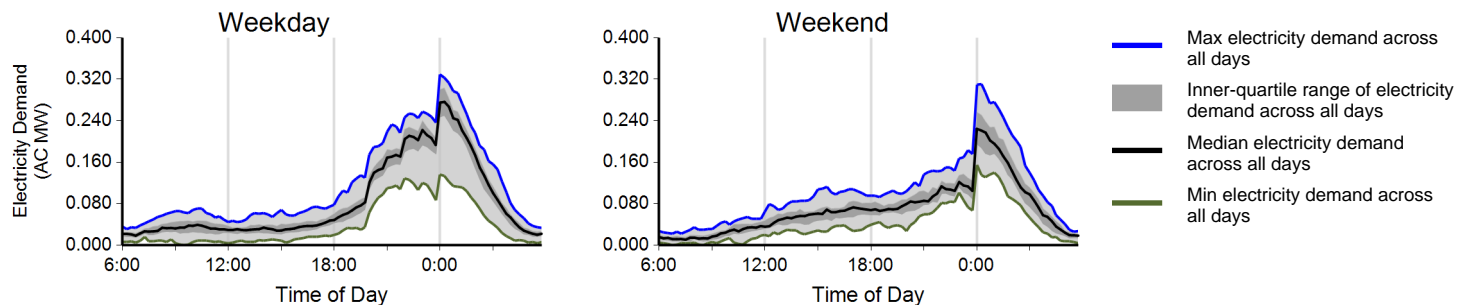
Charging Unit Utilization



## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>


<sup>1</sup> Includes all charging units that were in use by the end of the reporting period

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<sup>4</sup> Based on 15 minute rolling average power output from all charging units



# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

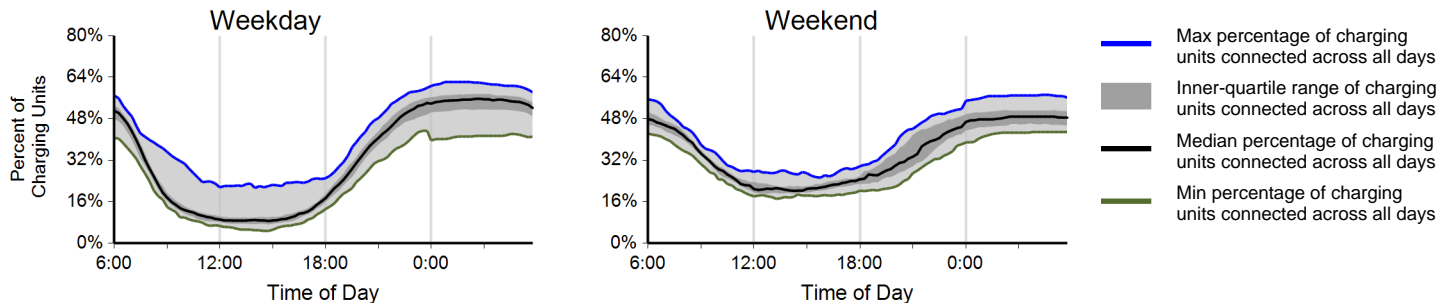
Region: Los Angeles, CA Metropolitan Area

Report period: April 2012 through June 2012

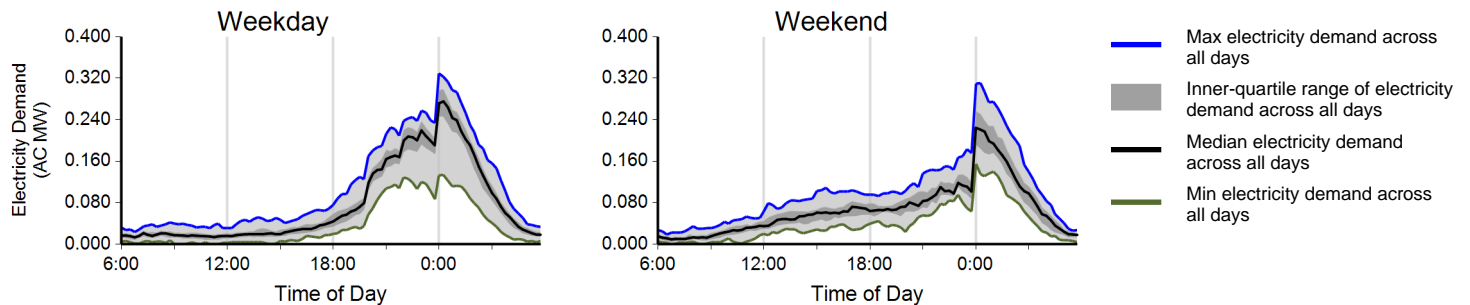
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	12,381	4,694	17,075
Electricity consumed (AC MWh)	115.67	42.02	157.70
Percent of time with a vehicle connected to EVSE	32%	34%	32%
Percent of time with a vehicle drawing power from EVSE	7%	7%	7%
Average number of charging events started per EVSE per day	0.68	0.64	0.67

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Los Angeles, CA Metropolitan Area

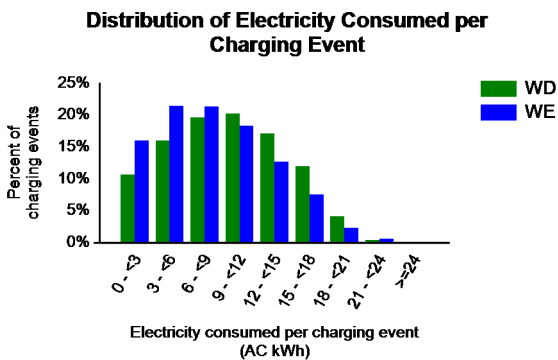
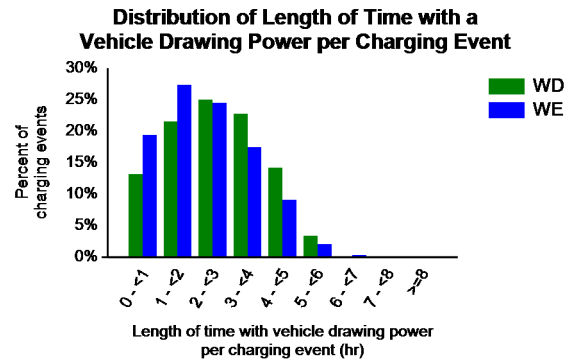
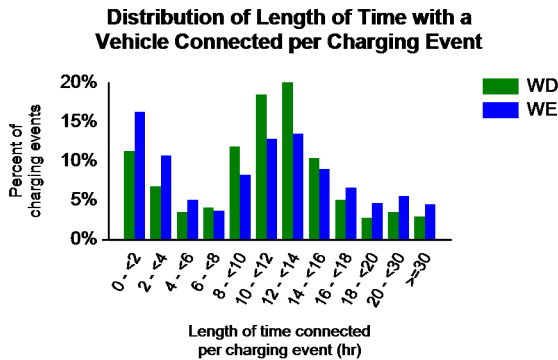
Report period: April 2012 through June 2012

## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	97%	3%	0%
Percent of electricity consumed	98%	2%	0%

## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	11.9	11.5	11.8
Average length of time with vehicle drawing power per charging event (hr)	2.6	2.3	2.5
Average electricity consumed per charging event (AC kWh)	9.6	8.2	9.2



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

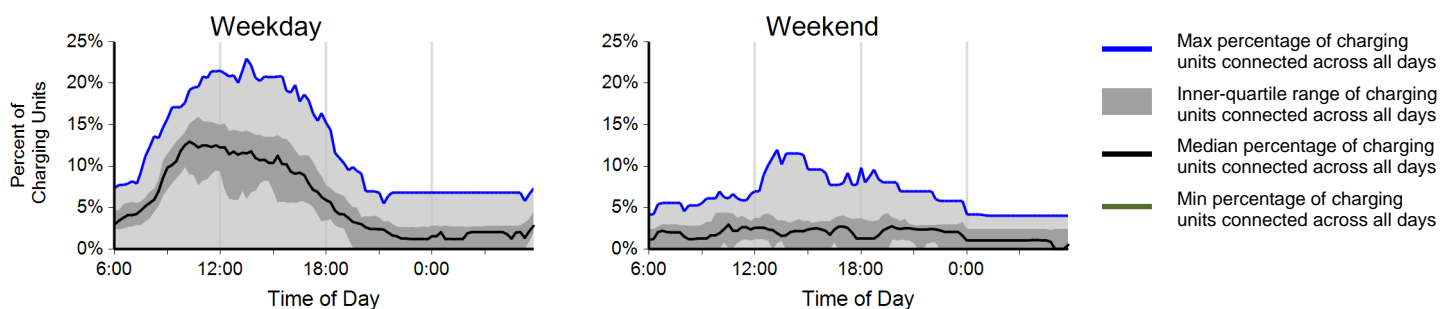
Region: Los Angeles, CA Metropolitan Area

Report period: April 2012 through June 2012

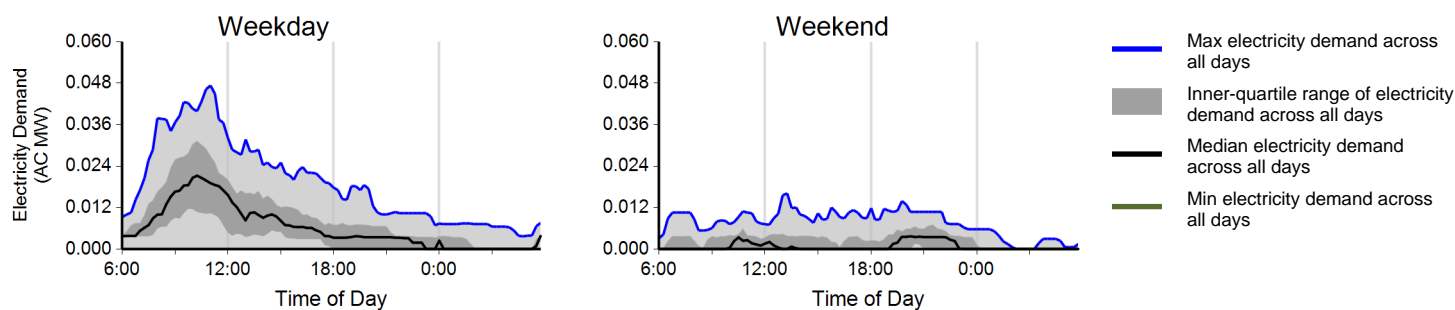
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	1,275	190	1,465
Electricity consumed (AC MWh)	10.16	1.04	11.20
Percent of time with a vehicle connected to EVSE	6%	2%	5%
Percent of time with a vehicle drawing power from EVSE	3%	1%	2%
Average number of charging events started per EVSE per day	0.31	0.11	0.25

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Los Angeles, CA Metropolitan Area

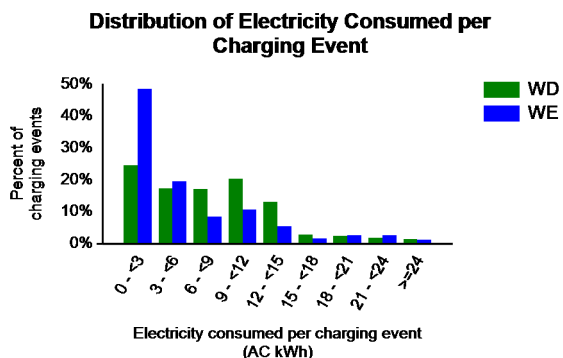
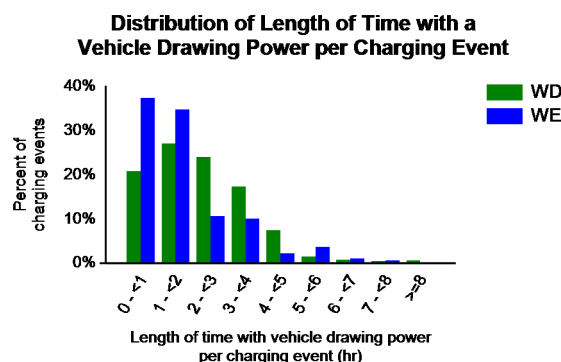
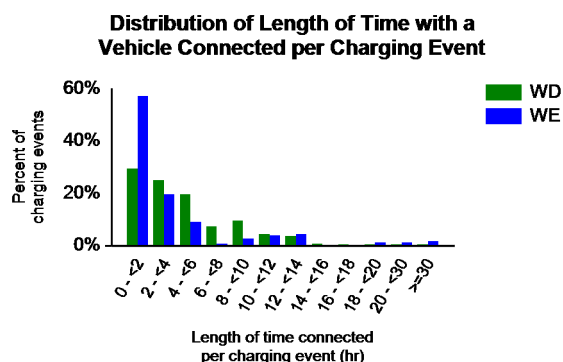
Report period: April 2012 through June 2012

## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	11%	4%	86%
Percent of electricity consumed	11%	4%	85%

## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	4.8	3.8	4.6
Average length of time with vehicle drawing power per charging event (hr)	2.3	1.6	2.2
Average electricity consumed per charging event (AC kWh)	7.9	5.6	7.6



## EV Project Electric Vehicle Charging Infrastructure Summary Report

Region: San Diego, CA Metropolitan Area

Report period: April 2012 through June 2012

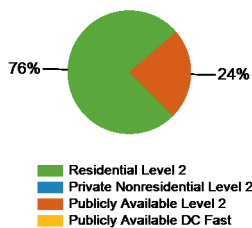
Number of EV Project vehicles in region: 522



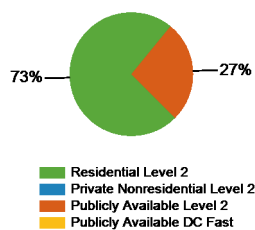
### Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units <sup>1</sup>	523	0	177	0	700
Number of charging events <sup>2</sup>	34,464	0	10,760	0	45,224
Electricity consumed (AC MWh)	302.45	0.00	109.54	0.00	411.98
Percent of time with a vehicle connected to charging unit	37%	0%	17%	0%	33%
Percent of time with a vehicle drawing power from charging unit	8%	0%	10%	0%	8%

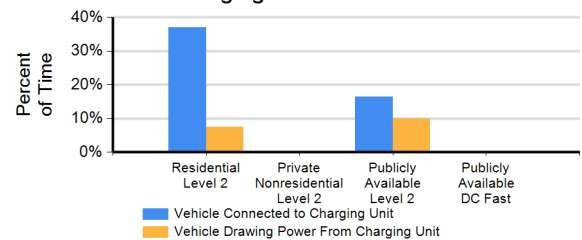
Number of Charge Events



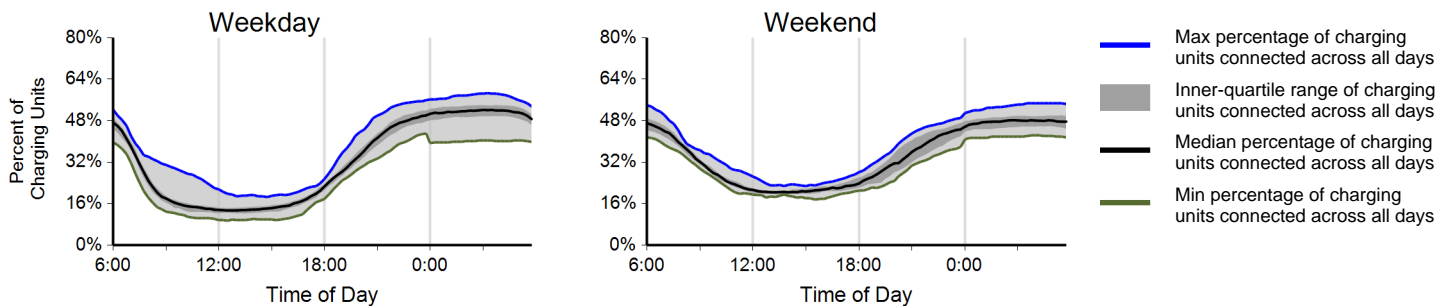
Electricity Consumed



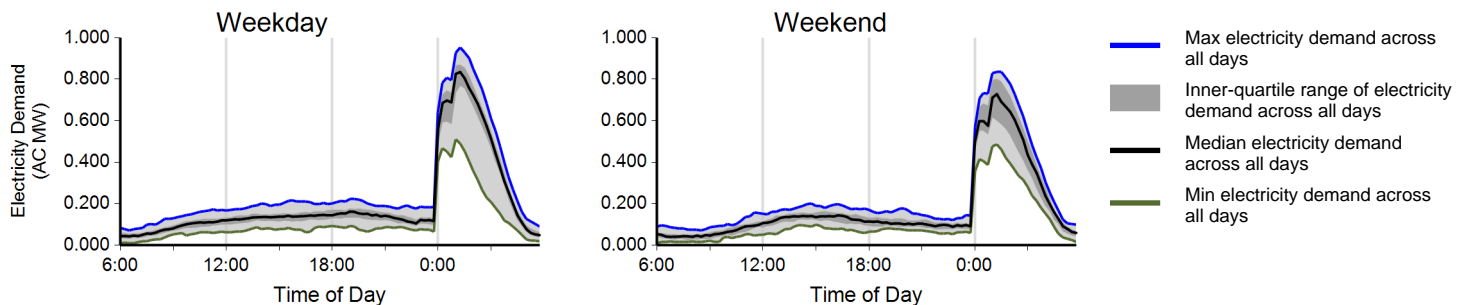
Charging Unit Utilization



### Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



### Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



<sup>1</sup> Includes all charging units that were in use by the end of the reporting period

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

<sup>3</sup> Considers the connection status of all charging units every minute

<sup>4</sup> Based on 15 minute rolling average power output from all charging units

# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

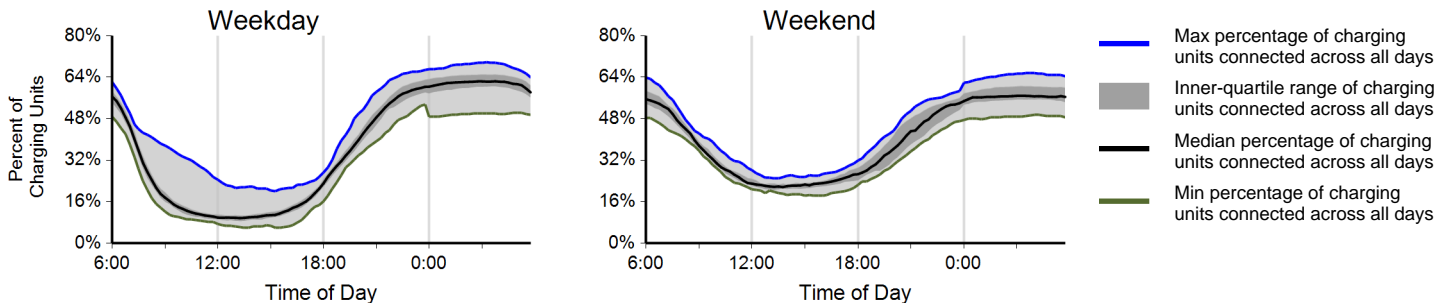
Region: San Diego, CA Metropolitan Area

Report period: April 2012 through June 2012

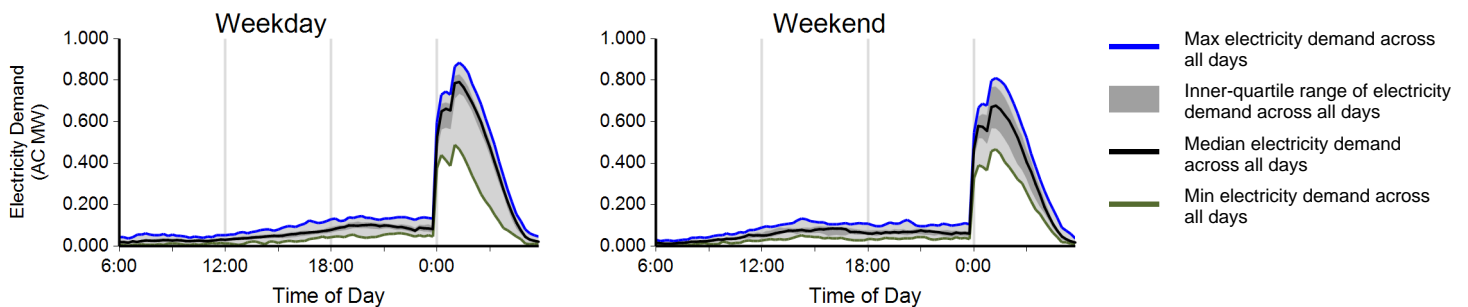
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	25,436	9,028	34,464
Electricity consumed (AC MWh)	221.25	81.19	302.44
Percent of time with a vehicle connected to EVSE	36%	39%	37%
Percent of time with a vehicle drawing power from EVSE	8%	7%	8%
Average number of charging events started per EVSE per day	0.77	0.68	0.74

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: San Diego, CA Metropolitan Area

Report period: April 2012 through June 2012

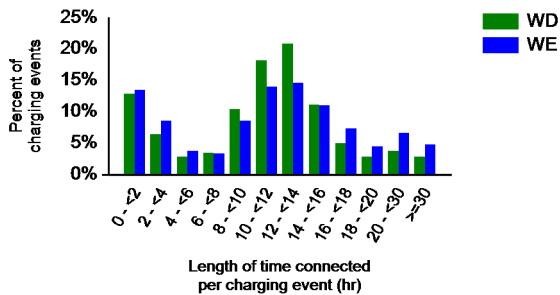
## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	82%	18%	0%
Percent of electricity consumed	87%	13%	0%

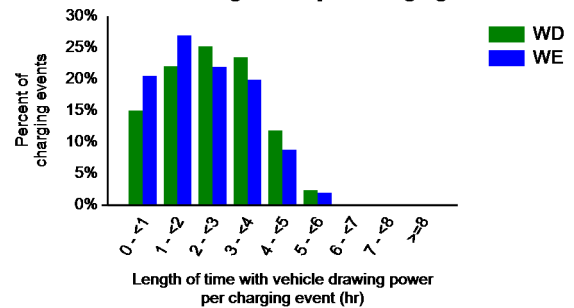
## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	12.0	12.5	12.1
Average length of time with vehicle drawing power per charging event (hr)	2.5	2.3	2.5
Average electricity consumed per charging event (AC kWh)	9.0	8.0	8.8

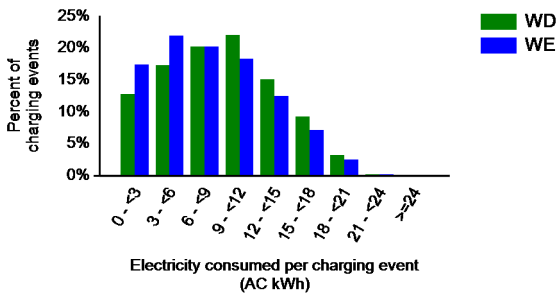
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



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



**Distribution of Electricity Consumed per Charging Event**



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

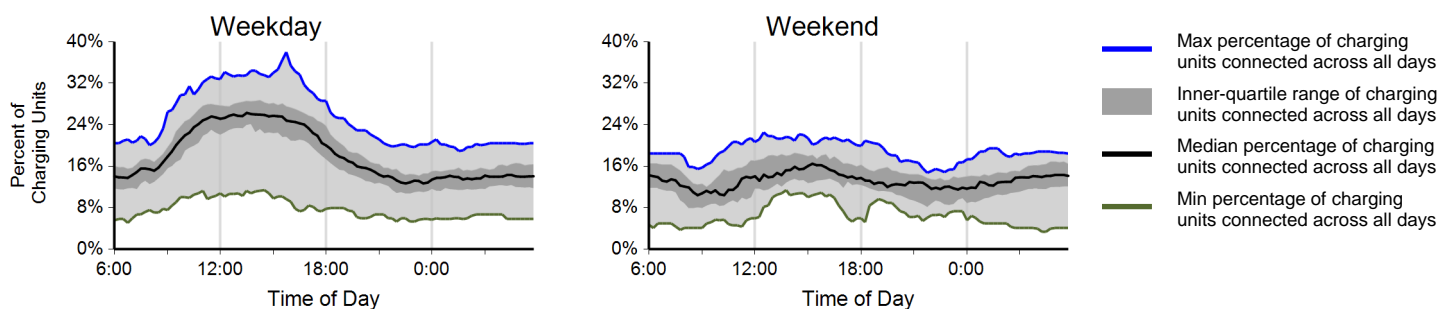
Region: San Diego, CA Metropolitan Area

Report period: April 2012 through June 2012

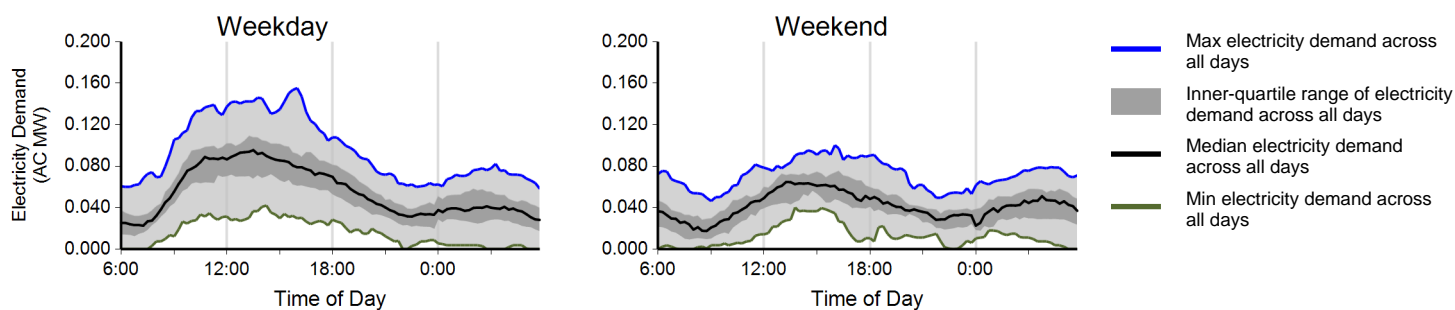
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	8,454	2,306	10,760
Electricity consumed (AC MWh)	84.45	25.09	109.54
Percent of time with a vehicle connected to EVSE	18%	13%	17%
Percent of time with a vehicle drawing power from EVSE	11%	8%	10%
Average number of charging events started per EVSE per day	0.92	0.62	0.83

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>





# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: San Diego, CA Metropolitan Area

Report period: April 2012 through June 2012

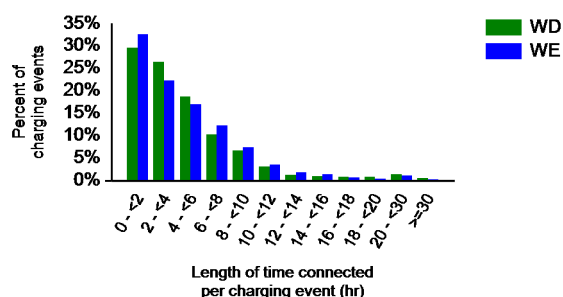
## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	17%	1%	82%
Percent of electricity consumed	12%	1%	87%

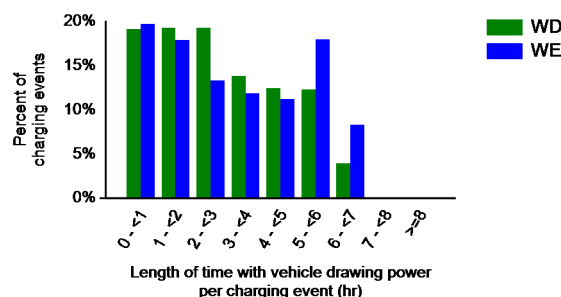
## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	4.9	4.6	4.8
Average length of time with vehicle drawing power per charging event (hr)	2.8	3.1	2.9
Average electricity consumed per charging event (AC kWh)	10.0	11.0	10.2

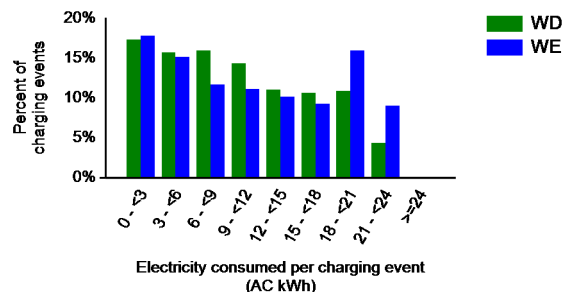
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



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



**Distribution of Electricity Consumed per Charging Event**



# EV Project Electric Vehicle Charging Infrastructure Summary Report

Region: San Francisco, CA Metropolitan Area

Report period: April 2012 through June 2012

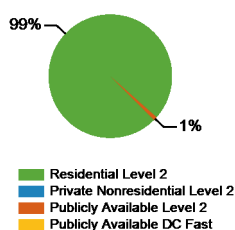
Number of EV Project vehicles in region: 863



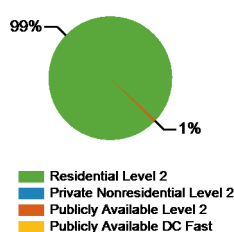
## Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units <sup>1</sup>	871	0	16	0	887
Number of charging events <sup>2</sup>	51,729	0	493	0	52,222
Electricity consumed (AC MWh)	505.41	0.00	3.18	0.00	508.59
Percent of time with a vehicle connected to charging unit	34%	0%	6%	0%	33%
Percent of time with a vehicle drawing power from charging unit	7%	0%	3%	0%	7%

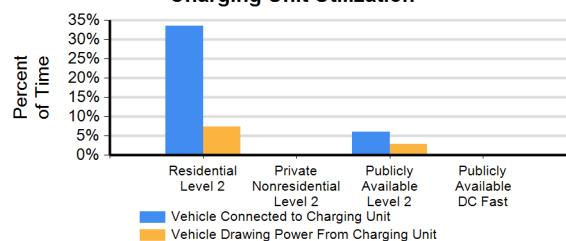
Number of Charge Events



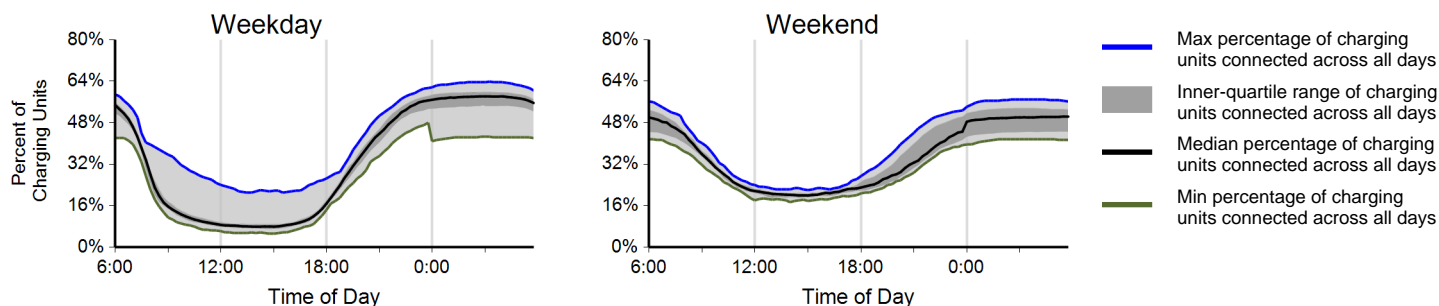
Electricity Consumed



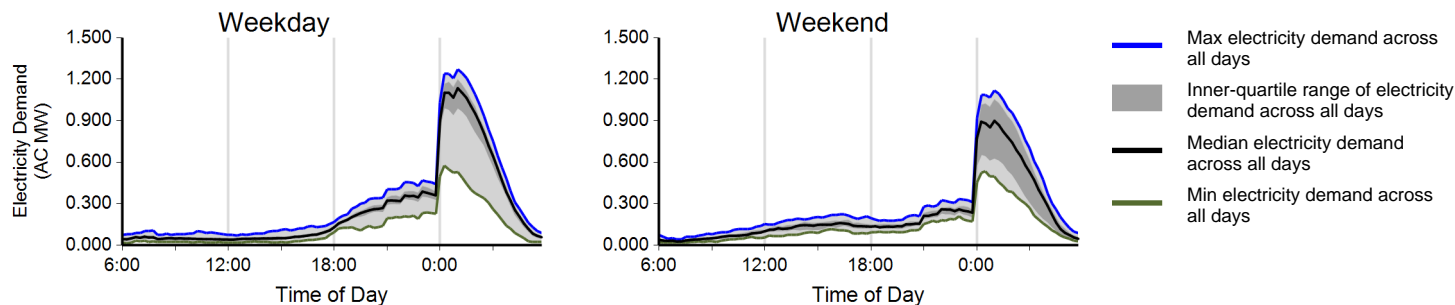
Charging Unit Utilization



## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>


<sup>1</sup> Includes all charging units that were in use by the end of the reporting period

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

<sup>3</sup> Considers the connection status of all charging units every minute

<sup>4</sup> Based on 15 minute rolling average power output from all charging units

# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

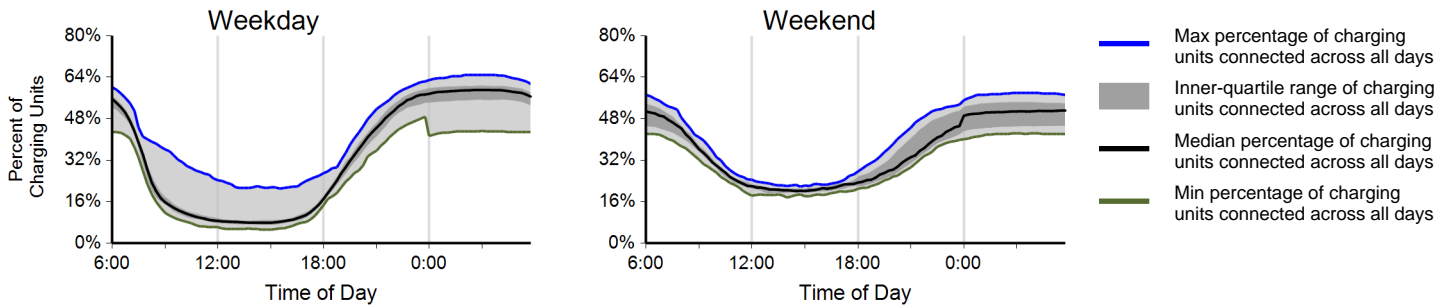
Region: San Francisco, CA Metropolitan Area

Report period: April 2012 through June 2012

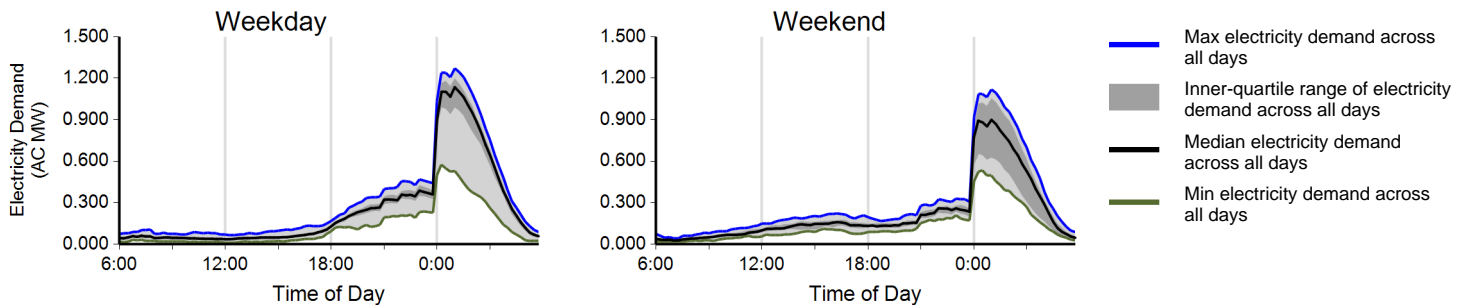
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	38,052	13,677	51,729
Electricity consumed (AC MWh)	374.33	131.08	505.41
Percent of time with a vehicle connected to EVSE	33%	35%	34%
Percent of time with a vehicle drawing power from EVSE	8%	7%	7%
Average number of charging events started per EVSE per day	0.68	0.61	0.66

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: San Francisco, CA Metropolitan Area

Report period: April 2012 through June 2012

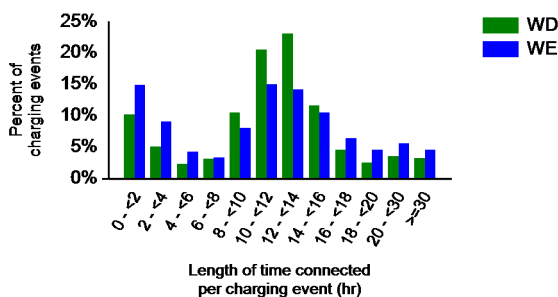
## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	100%	0%	0%
Percent of electricity consumed	100%	0%	0%

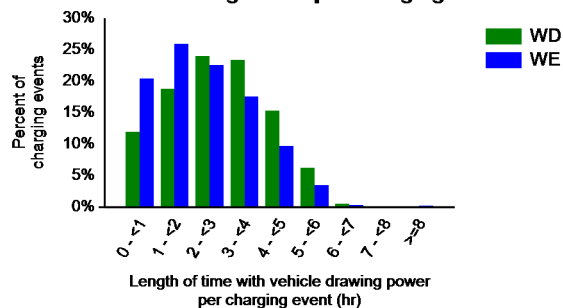
## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	12.4	12.1	12.3
Average length of time with vehicle drawing power per charging event (hr)	2.8	2.3	2.7
Average electricity consumed per charging event (AC kWh)	10.3	8.4	9.8

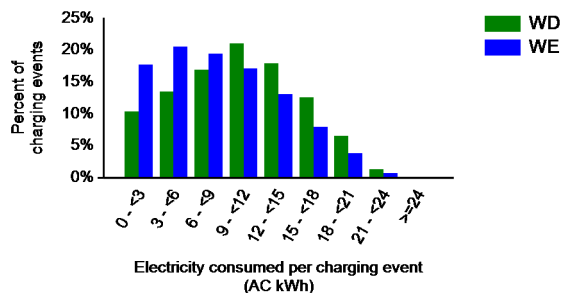
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



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



**Distribution of Electricity Consumed per Charging Event**



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

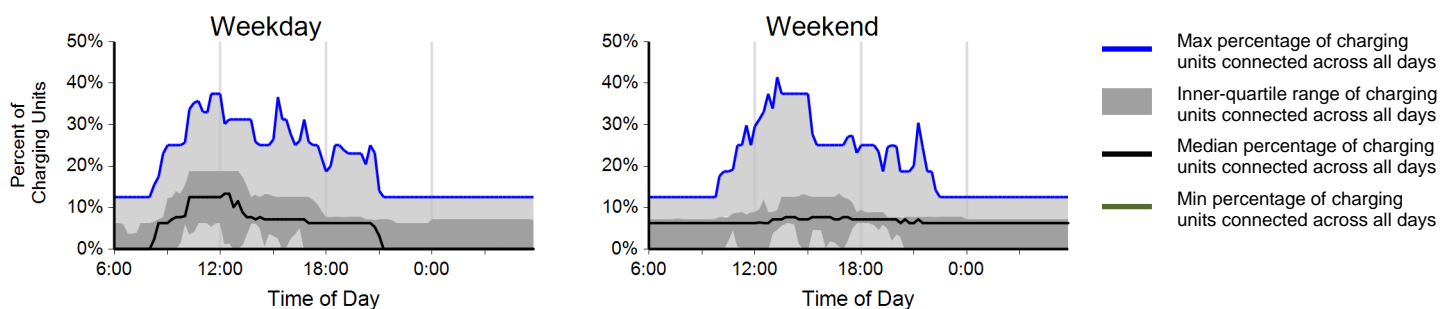
Region: San Francisco, CA Metropolitan Area

Report period: April 2012 through June 2012

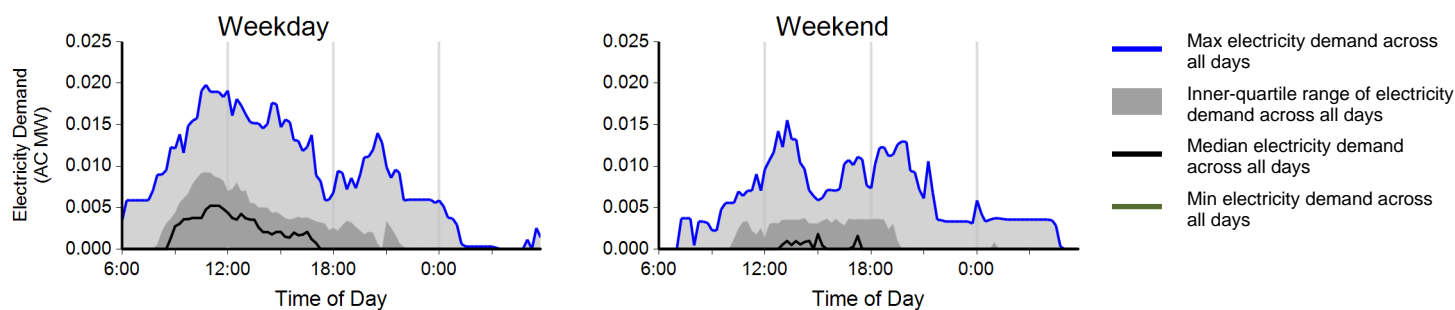
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	388	105	493
Electricity consumed (AC MWh)	2.66	0.53	3.18
Percent of time with a vehicle connected to EVSE	6%	6%	6%
Percent of time with a vehicle drawing power from EVSE	3%	2%	3%
Average number of charging events started per EVSE per day	0.40	0.27	0.36

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: San Francisco, CA Metropolitan Area

Report period: April 2012 through June 2012

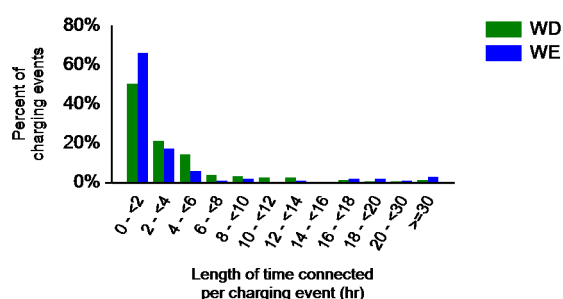
## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	26%	0%	74%
Percent of electricity consumed	20%	0%	80%

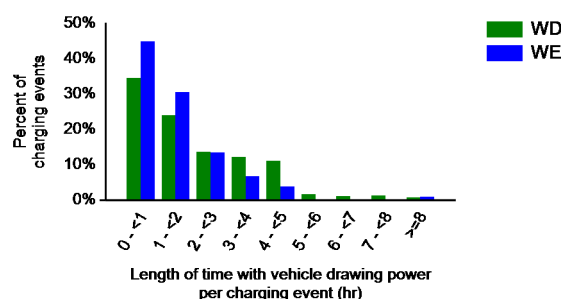
## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	4.1	3.9	4.0
Average length of time with vehicle drawing power per charging event (hr)	2.1	1.5	2.0
Average electricity consumed per charging event (AC kWh)	6.9	4.9	6.5

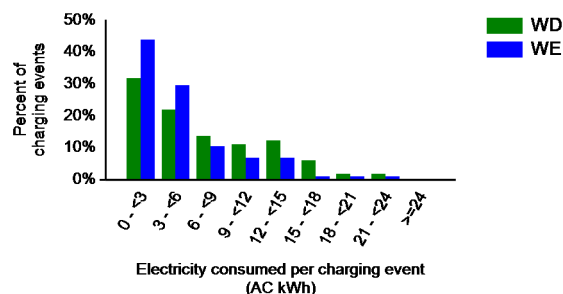
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



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



**Distribution of Electricity Consumed per Charging Event**



## EV Project Electric Vehicle Charging Infrastructure Summary Report

Region: Washington, D.C. Metropolitan Area

Report period: April 2012 through June 2012

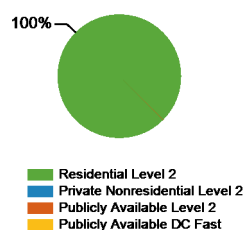
Number of EV Project vehicles in region: 88



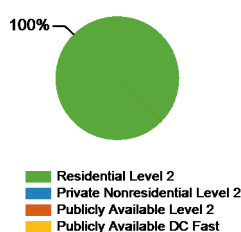
### Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units <sup>1</sup>	89	0	3	0	92
Number of charging events <sup>2</sup>	8,669	0	7	0	8,676
Electricity consumed (AC MWh)	53.89	0.00	0.04	0.00	53.93
Percent of time with a vehicle connected to charging unit	51%	0%	3%	0%	51%
Percent of time with a vehicle drawing power from charging unit	9%	0%	2%	0%	9%

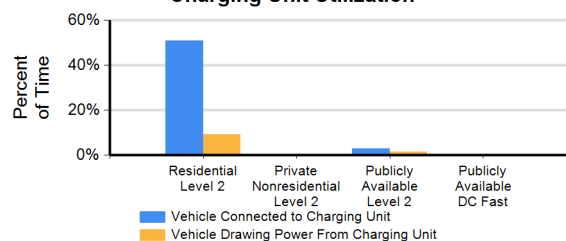
Number of Charge Events



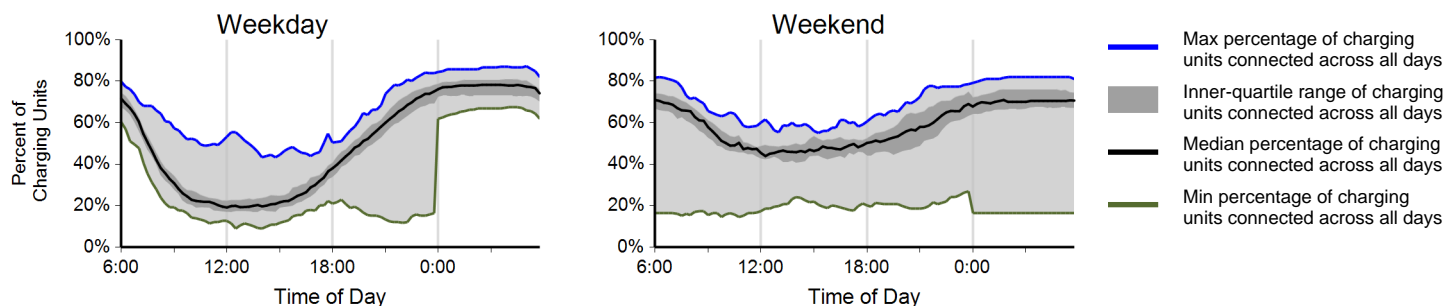
Electricity Consumed



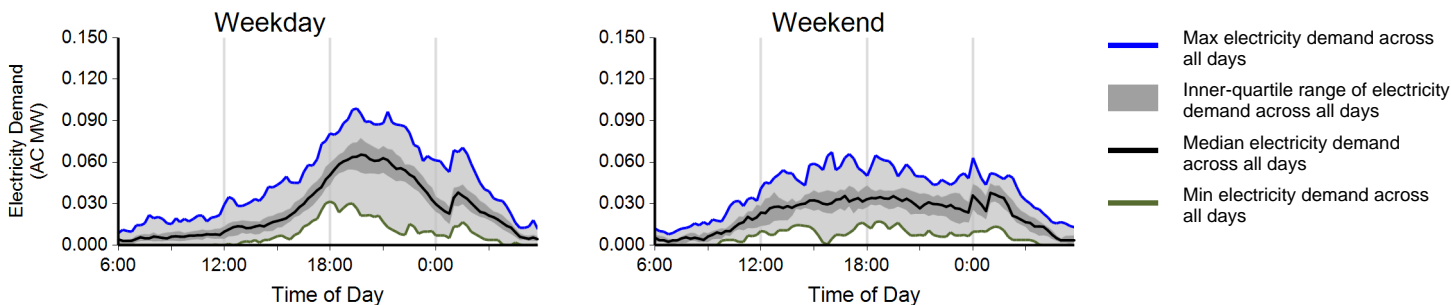
Charging Unit Utilization



### Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



### Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



<sup>1</sup> Includes all charging units that were in use by the end of the reporting period

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

<sup>3</sup> Considers the connection status of all charging units every minute

<sup>4</sup> Based on 15 minute rolling average power output from all charging units

# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Washington, D.C. Metropolitan Area

Report period: April 2012 through June 2012

## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	6,281	2,388	8,669
Electricity consumed (AC MWh)	40.14	13.75	53.89
Percent of time with a vehicle connected to EVSE	49%	56%	51%
Percent of time with a vehicle drawing power from EVSE	10%	8%	9%
Average number of charging events started per EVSE per day	1.15	1.09	1.13

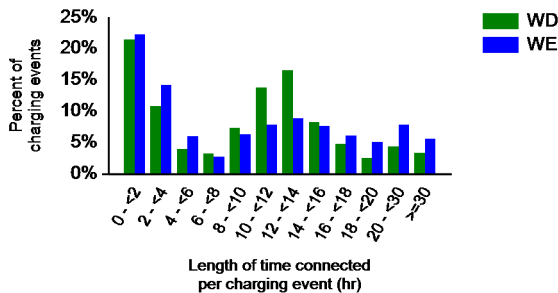
## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	0%	100%	0%
Percent of electricity consumed	0%	100%	0%

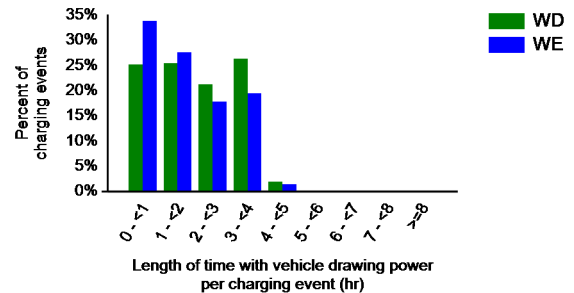
## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	10.8	11.2	10.9
Average length of time with vehicle drawing power per charging event (hr)	2.1	1.8	2.0
Average electricity consumed per charging event (AC kWh)	6.5	5.6	6.2

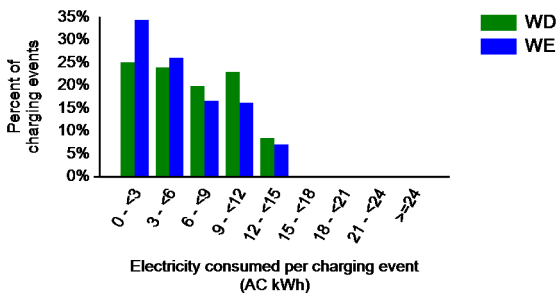
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



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



**Distribution of Electricity Consumed per Charging Event**





## EV Project Electric Vehicle Charging Infrastructure Summary Report

Region: Oregon

Report period: April 2012 through June 2012

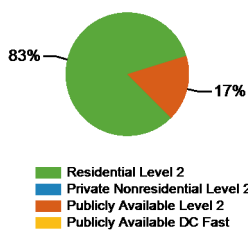
Number of EV Project vehicles in region: 321



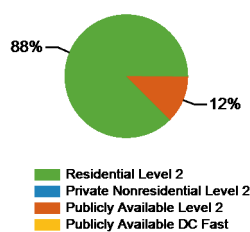
### Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units <sup>1</sup>	319	0	261	0	580
Number of charging events <sup>2</sup>	21,230	0	4,444	0	25,674
Electricity consumed (AC MWh)	169.00	0.00	23.96	0.00	192.96
Percent of time with a vehicle connected to charging unit	36%	0%	7%	0%	23%
Percent of time with a vehicle drawing power from charging unit	7%	0%	1%	0%	5%

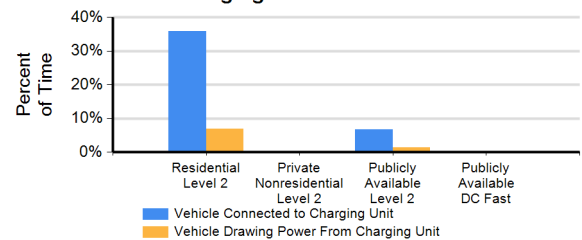
Number of Charge Events



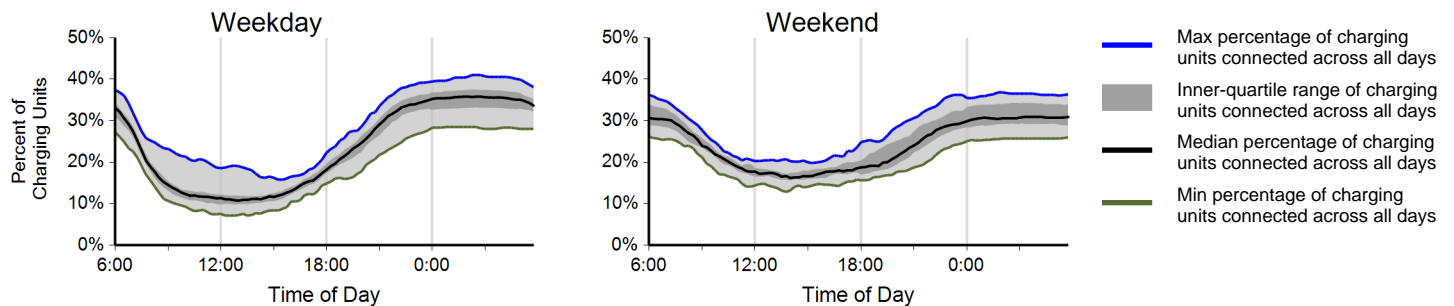
Electricity Consumed



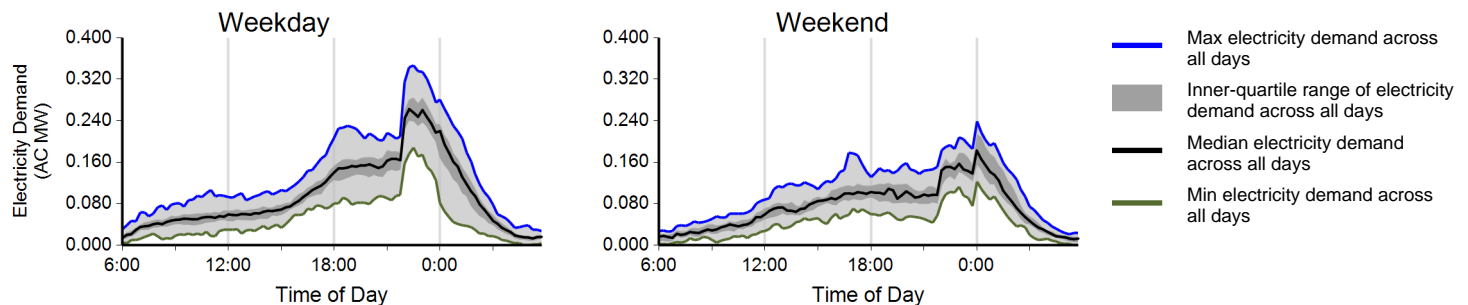
Charging Unit Utilization



### Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



### Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



<sup>1</sup> Includes all charging units that were in use by the end of the reporting period

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

<sup>3</sup> Considers the connection status of all charging units every minute

<sup>4</sup> Based on 15 minute rolling average power output from all charging units

# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

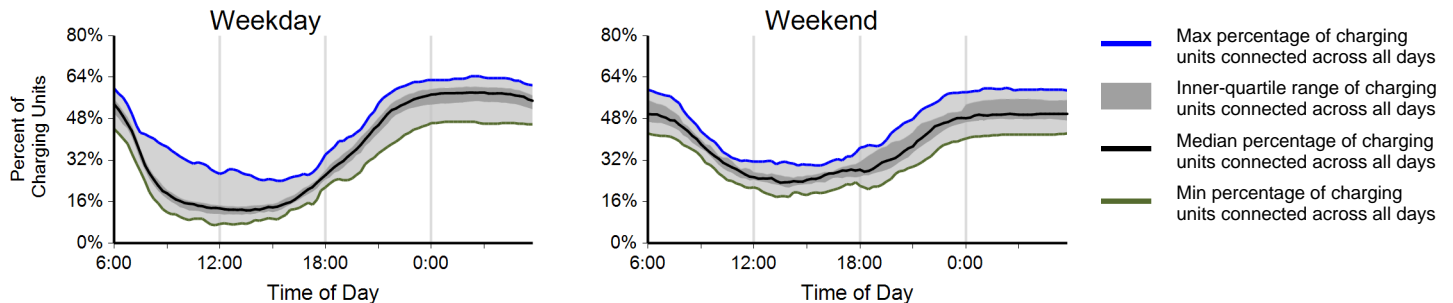
Region: Oregon

Report period: April 2012 through June 2012

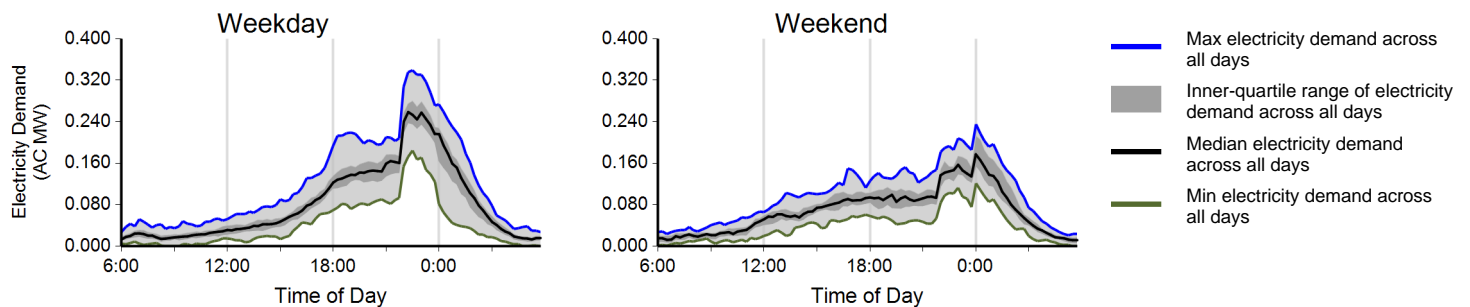
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	15,636	5,594	21,230
Electricity consumed (AC MWh)	126.16	42.84	169.00
Percent of time with a vehicle connected to EVSE	35%	38%	36%
Percent of time with a vehicle drawing power from EVSE	7%	6%	7%
Average number of charging events started per EVSE per day	0.78	0.69	0.75

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Oregon

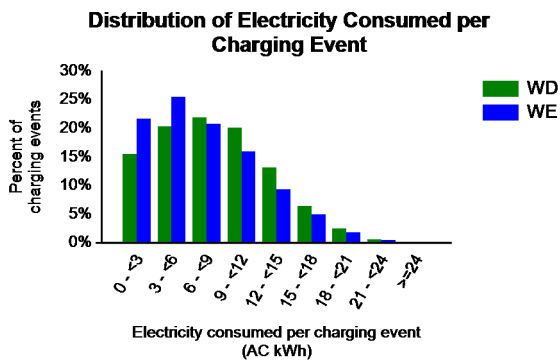
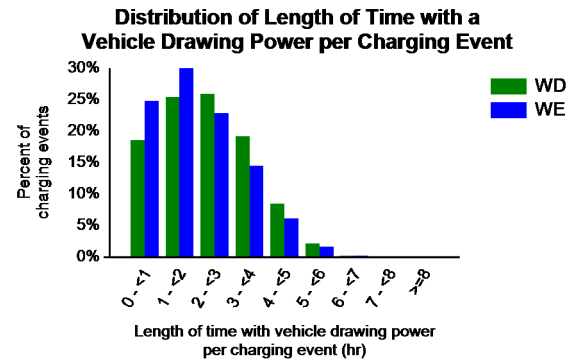
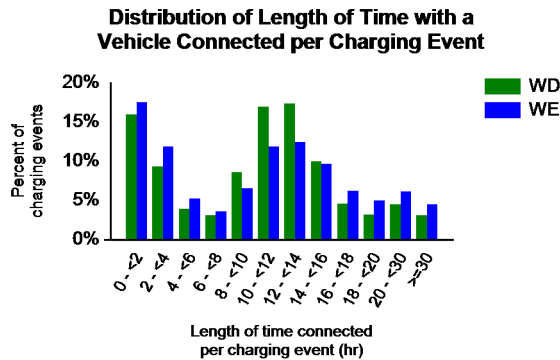
Report period: April 2012 through June 2012

## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	86%	14%	0%
Percent of electricity consumed	89%	11%	0%

## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	11.6	11.7	11.6
Average length of time with vehicle drawing power per charging event (hr)	2.3	2.0	2.2
Average electricity consumed per charging event (AC kWh)	8.2	7.2	8.0



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

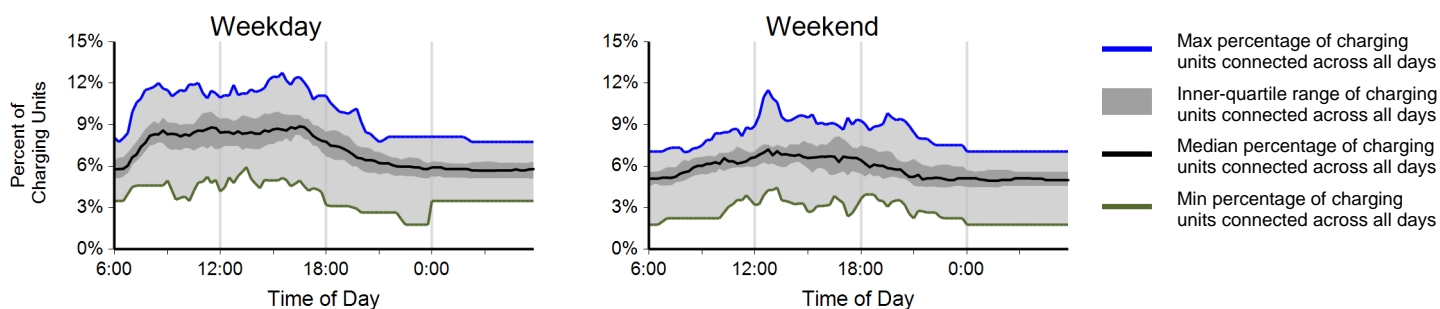
Region: Oregon

Report period: April 2012 through June 2012

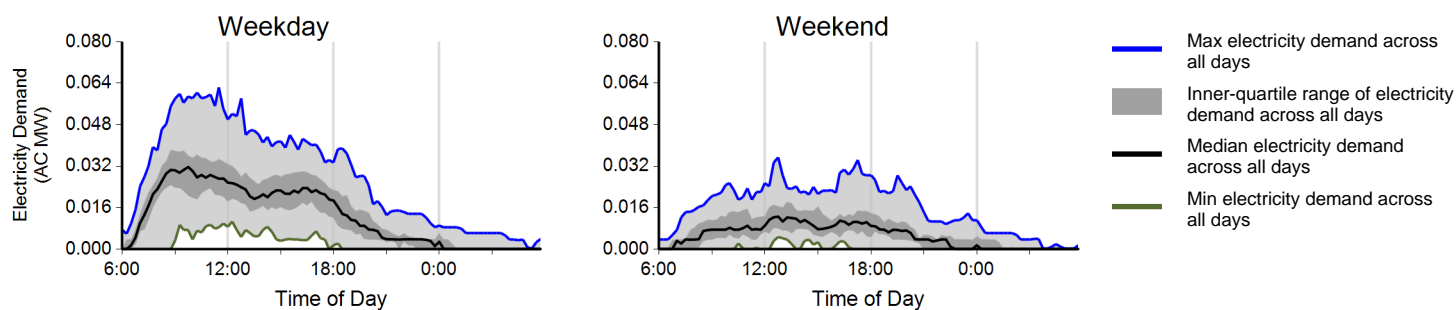
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	3,646	798	4,444
Electricity consumed (AC MWh)	20.37	3.59	23.96
Percent of time with a vehicle connected to EVSE	7%	6%	7%
Percent of time with a vehicle drawing power from EVSE	2%	1%	1%
Average number of charging events started per EVSE per day	0.24	0.13	0.21

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Oregon

Report period: April 2012 through June 2012

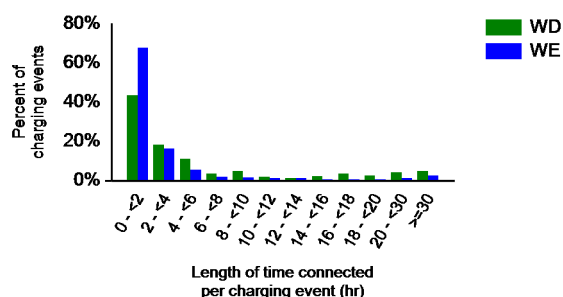
## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	38%	2%	59%
Percent of electricity consumed	39%	2%	59%

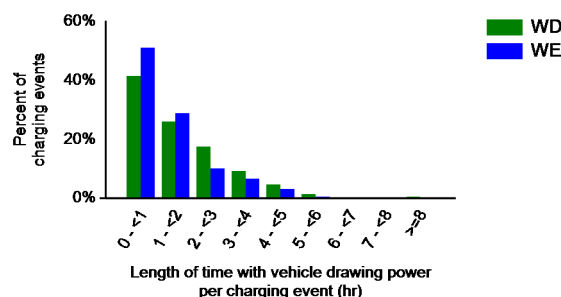
## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	8.5	3.9	7.7
Average length of time with vehicle drawing power per charging event (hr)	1.6	1.3	1.6
Average electricity consumed per charging event (AC kWh)	5.6	4.5	5.4

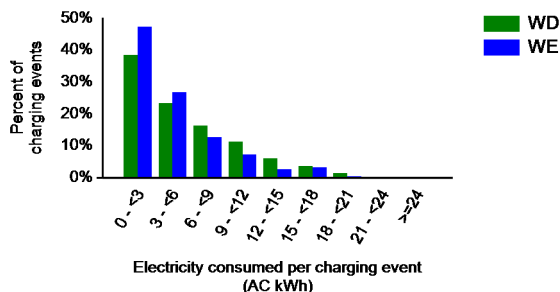
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



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



**Distribution of Electricity Consumed per Charging Event**



## EV Project Electric Vehicle Charging Infrastructure Summary Report

Region: Chattanooga, TN Metropolitan Area

Report period: April 2012 through June 2012

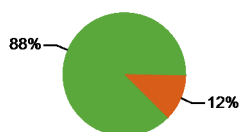
Number of EV Project vehicles in region: 35



### Charging Unit Usage

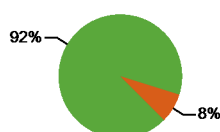
	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units <sup>1</sup>	36	0	40	0	76
Number of charging events <sup>2</sup>	2,281	0	316	0	2,597
Electricity consumed (AC MWh)	19.97	0.00	1.66	0.00	21.63
Percent of time with a vehicle connected to charging unit	34%	0%	1%	0%	18%
Percent of time with a vehicle drawing power from charging unit	8%	0%	1%	0%	4%

Number of Charge Events



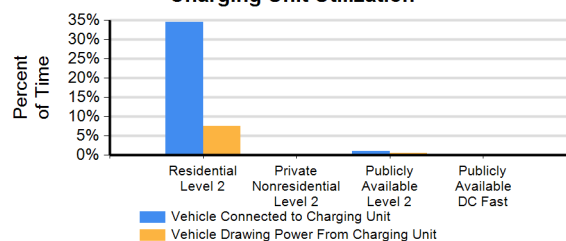
Residential Level 2  
Private Nonresidential Level 2  
Publicly Available Level 2  
Publicly Available DC Fast

Electricity Consumed

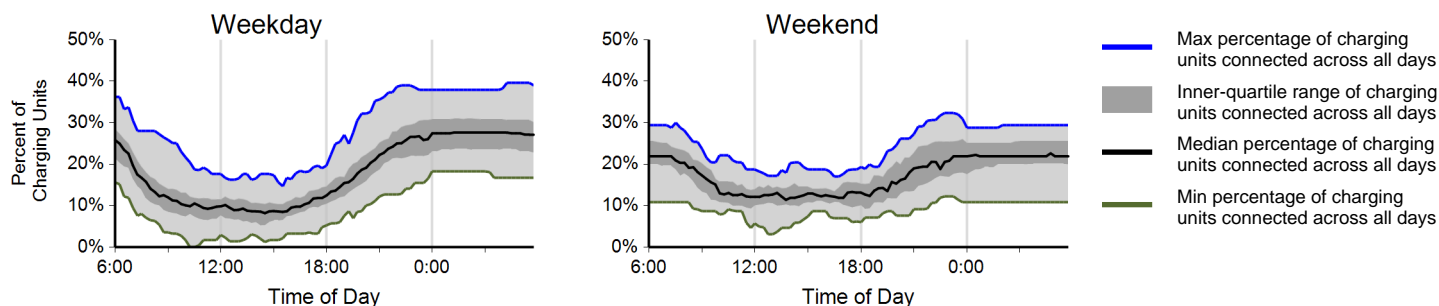


Residential Level 2  
Private Nonresidential Level 2  
Publicly Available Level 2  
Publicly Available DC Fast

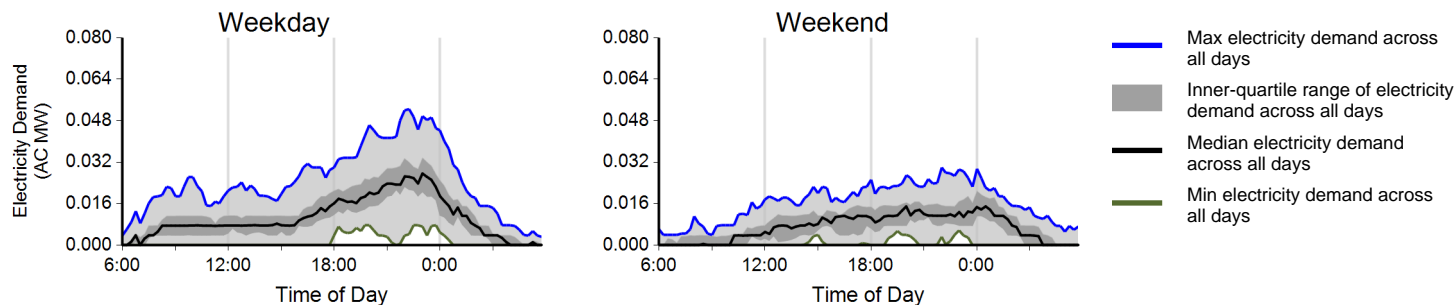
Charging Unit Utilization



### Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



### Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



<sup>1</sup> Includes all charging units that were in use by the end of the reporting period

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

<sup>3</sup> Considers the connection status of all charging units every minute

<sup>4</sup> Based on 15 minute rolling average power output from all charging units

# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

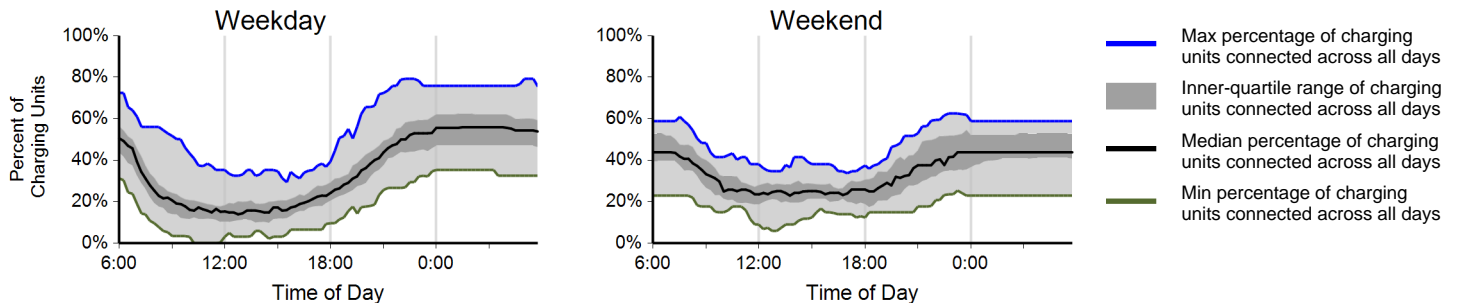
Region: Chattanooga, TN Metropolitan Area

Report period: April 2012 through June 2012

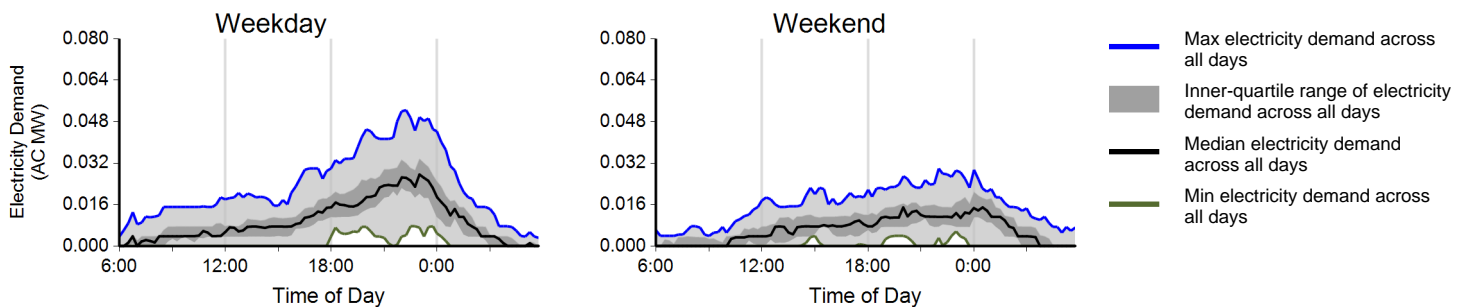
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	1,737	544	2,281
Electricity consumed (AC MWh)	15.65	4.32	19.97
Percent of time with a vehicle connected to EVSE	35%	34%	34%
Percent of time with a vehicle drawing power from EVSE	8%	6%	8%
Average number of charging events started per EVSE per day	0.82	0.64	0.77

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Chattanooga, TN Metropolitan Area

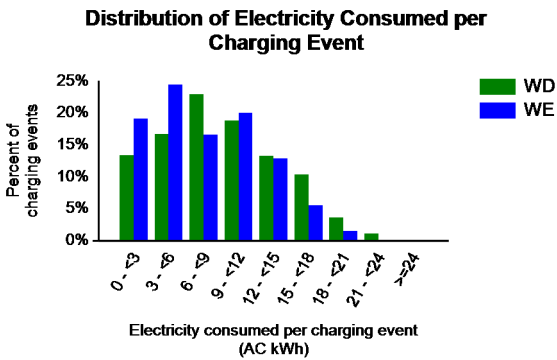
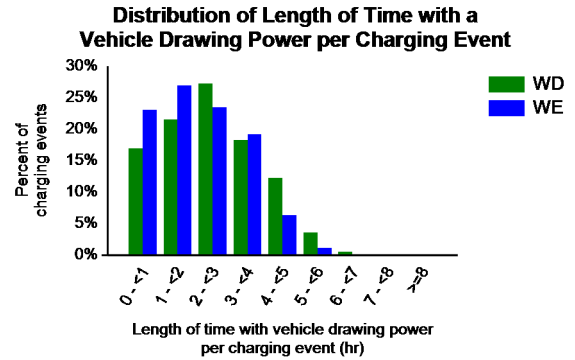
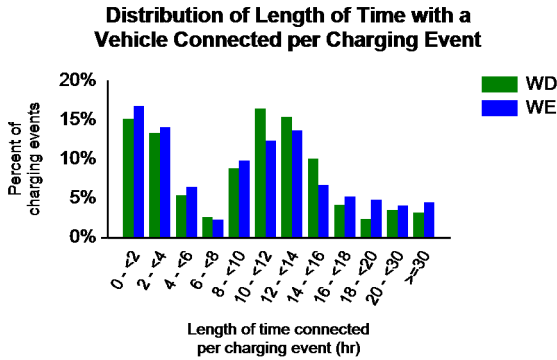
Report period: April 2012 through June 2012

## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	98%	2%	0%
Percent of electricity consumed	98%	2%	0%

## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	10.9	10.9	10.9
Average length of time with vehicle drawing power per charging event (hr)	2.5	2.1	2.4
Average electricity consumed per charging event (AC kWh)	9.1	7.7	8.8





# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

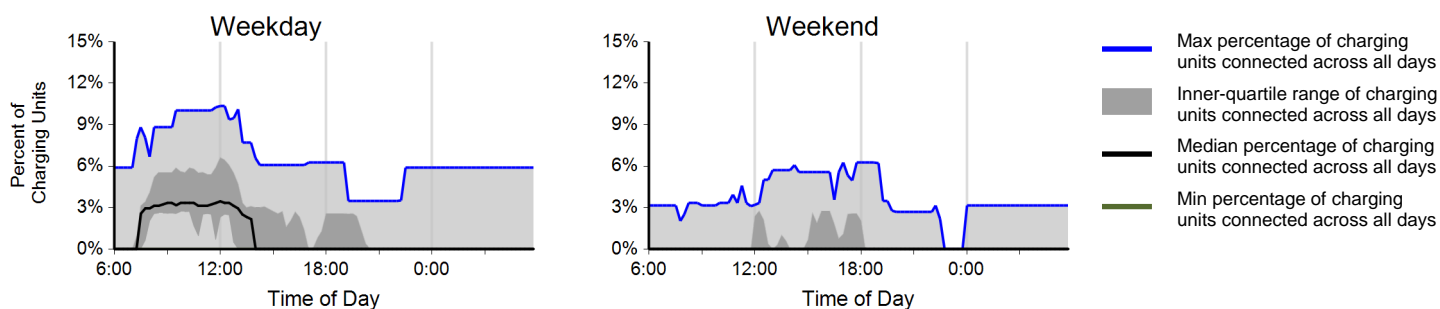
Region: Chattanooga, TN Metropolitan Area

Report period: April 2012 through June 2012

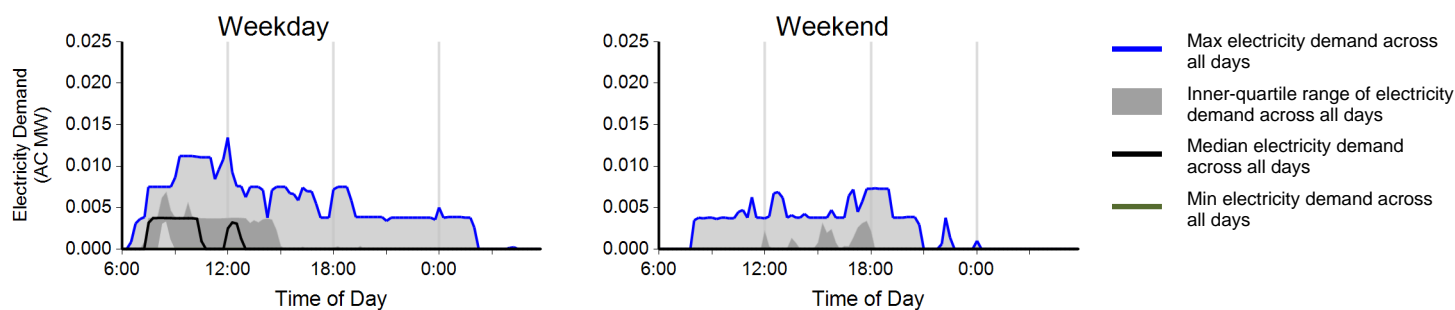
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	255	61	316
Electricity consumed (AC MWh)	1.45	0.21	1.66
Percent of time with a vehicle connected to EVSE	1%	0%	1%
Percent of time with a vehicle drawing power from EVSE	1%	0%	1%
Average number of charging events started per EVSE per day	0.12	0.07	0.10

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Chattanooga, TN Metropolitan Area

Report period: April 2012 through June 2012

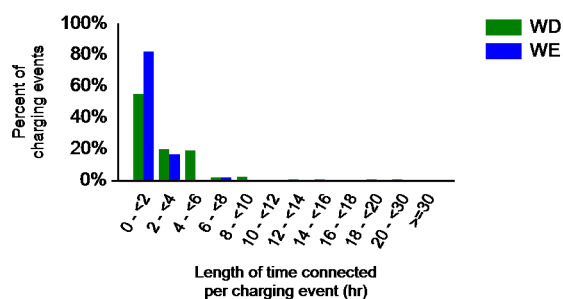
## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	69%	4%	27%
Percent of electricity consumed	81%	3%	17%

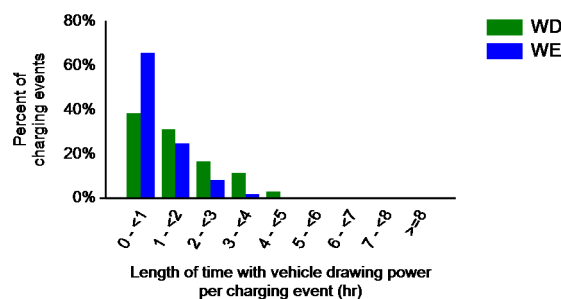
## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	2.8	1.2	2.5
Average length of time with vehicle drawing power per charging event (hr)	1.6	1.0	1.4
Average electricity consumed per charging event (AC kWh)	5.7	3.5	5.2

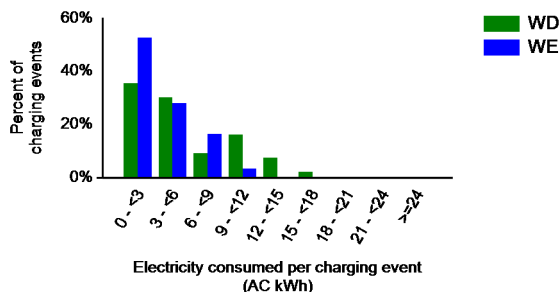
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



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



**Distribution of Electricity Consumed per Charging Event**



## EV Project Electric Vehicle Charging Infrastructure Summary Report

Region: Knoxville, TN Metropolitan Area

Report period: April 2012 through June 2012

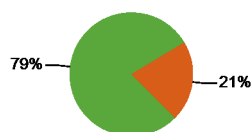
Number of EV Project vehicles in region: 82



### Charging Unit Usage

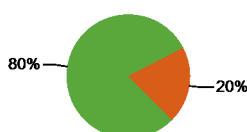
	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units <sup>1</sup>	81	0	103	0	184
Number of charging events <sup>2</sup>	5,029	0	1,346	0	6,375
Electricity consumed (AC MWh)	42.65	0.00	10.74	0.00	53.40
Percent of time with a vehicle connected to charging unit	35%	0%	5%	0%	19%
Percent of time with a vehicle drawing power from charging unit	7%	0%	2%	0%	4%

Number of Charge Events



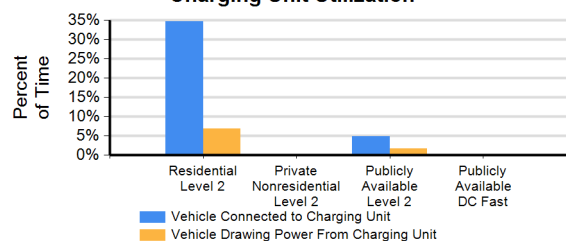
Residential Level 2  
Private Nonresidential Level 2  
Publicly Available Level 2  
Publicly Available DC Fast

Electricity Consumed

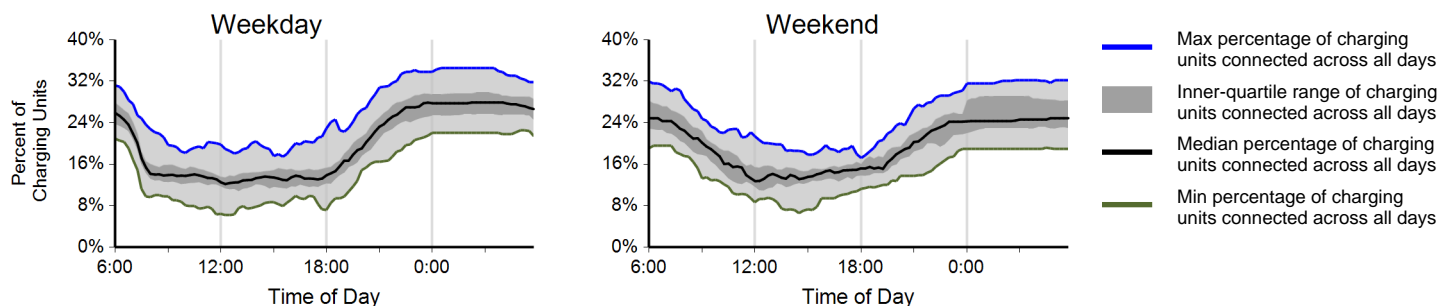


Residential Level 2  
Private Nonresidential Level 2  
Publicly Available Level 2  
Publicly Available DC Fast

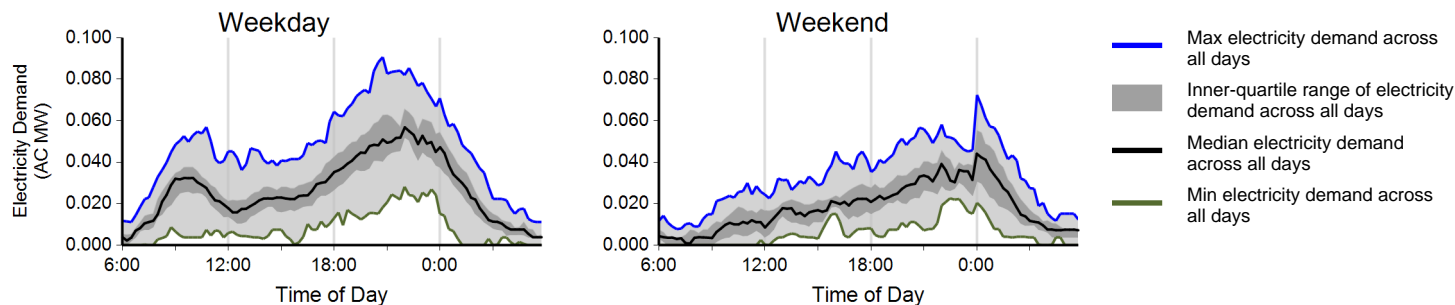
Charging Unit Utilization



### Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



### Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



<sup>1</sup> Includes all charging units that were in use by the end of the reporting period

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

<sup>3</sup> Considers the connection status of all charging units every minute

<sup>4</sup> Based on 15 minute rolling average power output from all charging units

# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

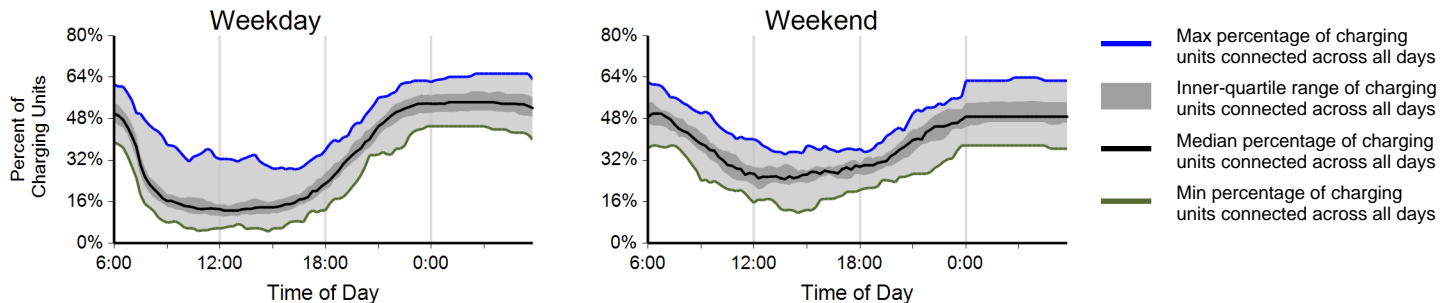
Region: Knoxville, TN Metropolitan Area

Report period: April 2012 through June 2012

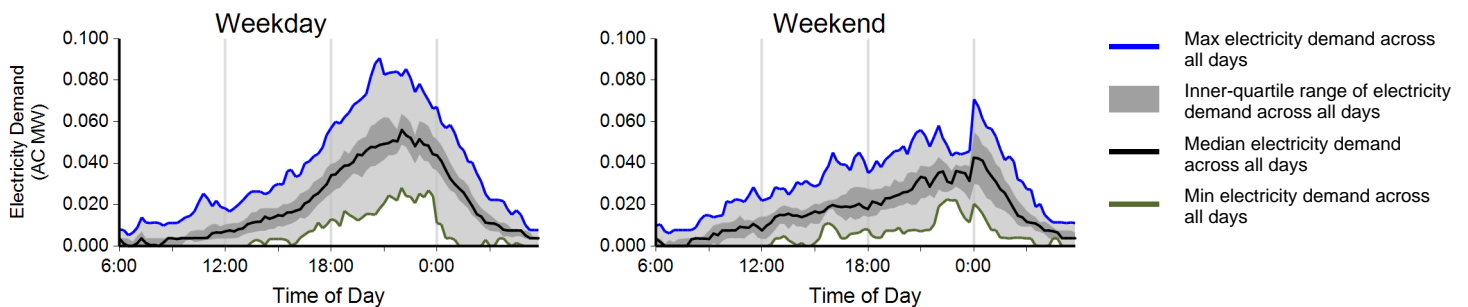
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	3,750	1,279	5,029
Electricity consumed (AC MWh)	32.04	10.61	42.65
Percent of time with a vehicle connected to EVSE	34%	37%	35%
Percent of time with a vehicle drawing power from EVSE	7%	6%	7%
Average number of charging events started per EVSE per day	0.74	0.63	0.71

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Knoxville, TN Metropolitan Area

Report period: April 2012 through June 2012

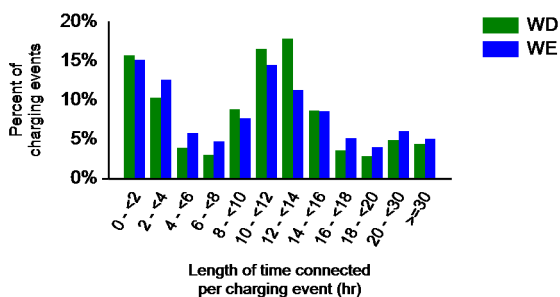
## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	88%	12%	0%
Percent of electricity consumed	91%	9%	0%

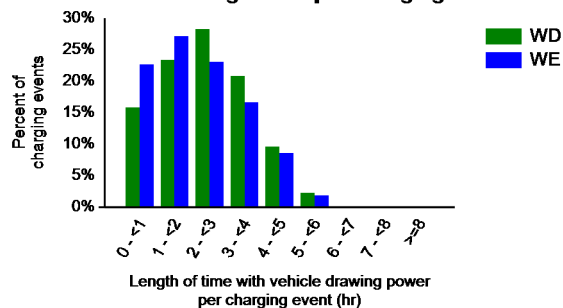
## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	11.9	12.1	12.0
Average length of time with vehicle drawing power per charging event (hr)	2.4	2.2	2.3
Average electricity consumed per charging event (AC kWh)	8.7	7.8	8.5

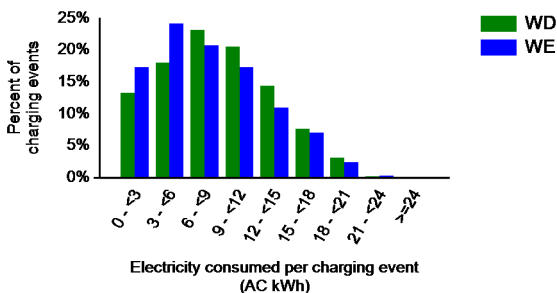
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



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



**Distribution of Electricity Consumed per Charging Event**



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

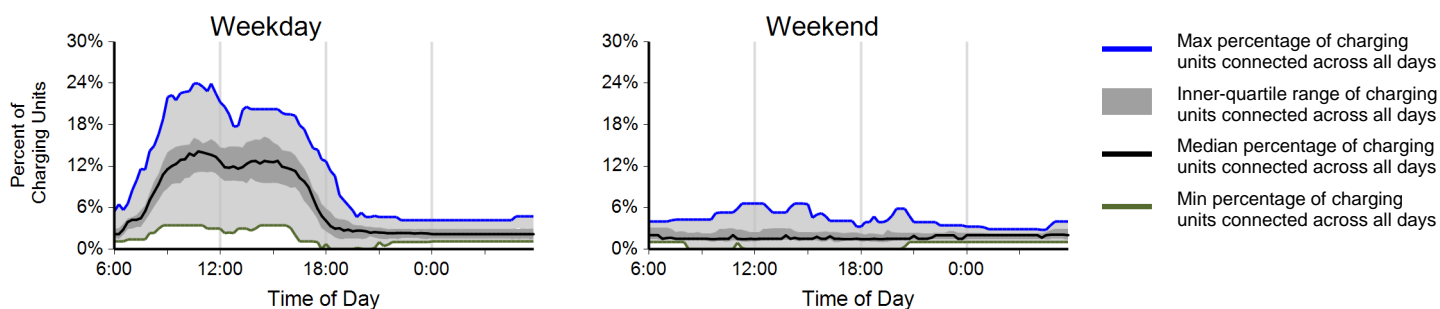
Region: Knoxville, TN Metropolitan Area

Report period: April 2012 through June 2012

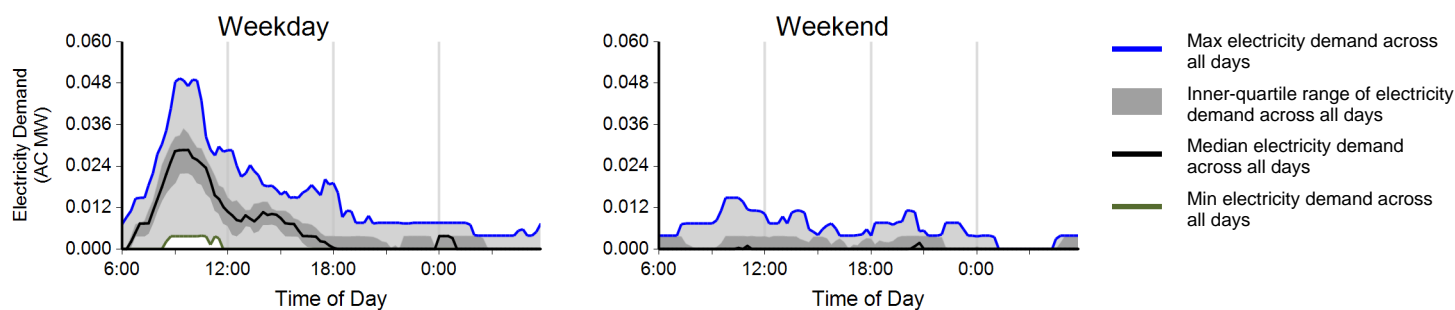
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	1,235	111	1,346
Electricity consumed (AC MWh)	10.07	0.67	10.74
Percent of time with a vehicle connected to EVSE	6%	2%	5%
Percent of time with a vehicle drawing power from EVSE	2%	0%	2%
Average number of charging events started per EVSE per day	0.23	0.05	0.18

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Knoxville, TN Metropolitan Area

Report period: April 2012 through June 2012

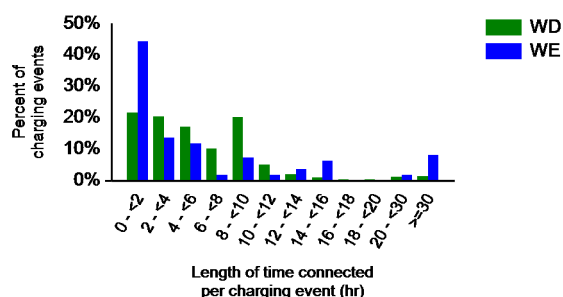
## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	53%	2%	46%
Percent of electricity consumed	52%	1%	47%

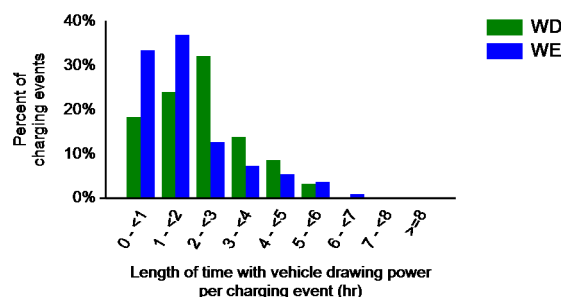
## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	6.4	9.5	6.7
Average length of time with vehicle drawing power per charging event (hr)	2.3	1.7	2.2
Average electricity consumed per charging event (AC kWh)	8.1	6.1	8.0

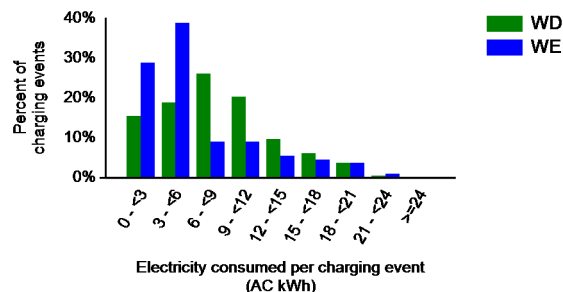
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



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



**Distribution of Electricity Consumed per Charging Event**



## EV Project Electric Vehicle Charging Infrastructure Summary Report

Region: Memphis, TN Metropolitan Area

Report period: April 2012 through June 2012

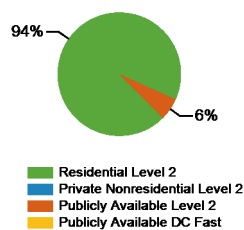
Number of EV Project vehicles in region: 26



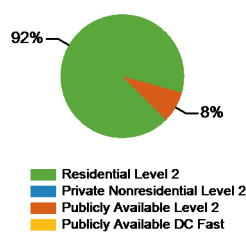
### Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units <sup>1</sup>	25	0	13	0	38
Number of charging events <sup>2</sup>	1,711	0	105	0	1,816
Electricity consumed (AC MWh)	13.37	0.00	1.19	0.00	14.57
Percent of time with a vehicle connected to charging unit	36%	0%	4%	0%	26%
Percent of time with a vehicle drawing power from charging unit	7%	0%	1%	0%	5%

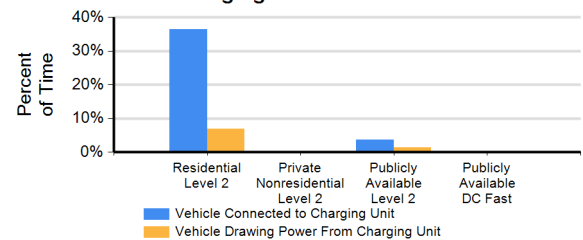
Number of Charge Events



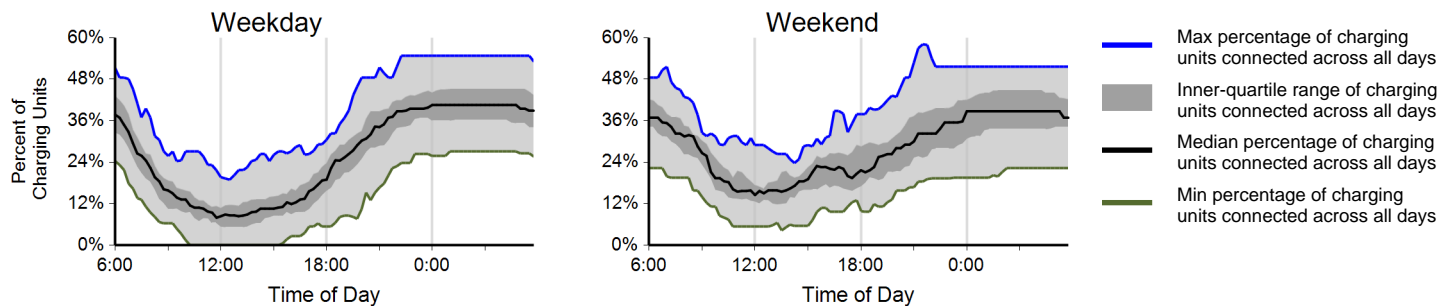
Electricity Consumed



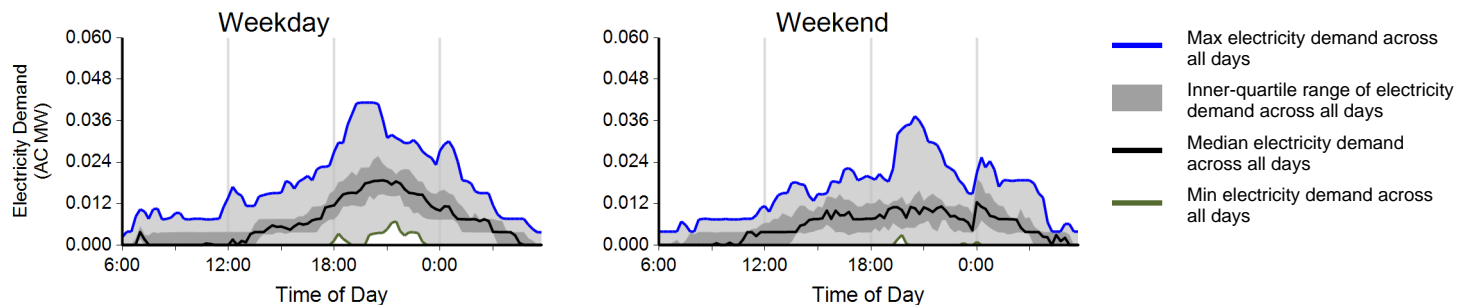
Charging Unit Utilization



### Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



### Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



<sup>1</sup> Includes all charging units that were in use by the end of the reporting period

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

<sup>3</sup> Considers the connection status of all charging units every minute

<sup>4</sup> Based on 15 minute rolling average power output from all charging units



# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

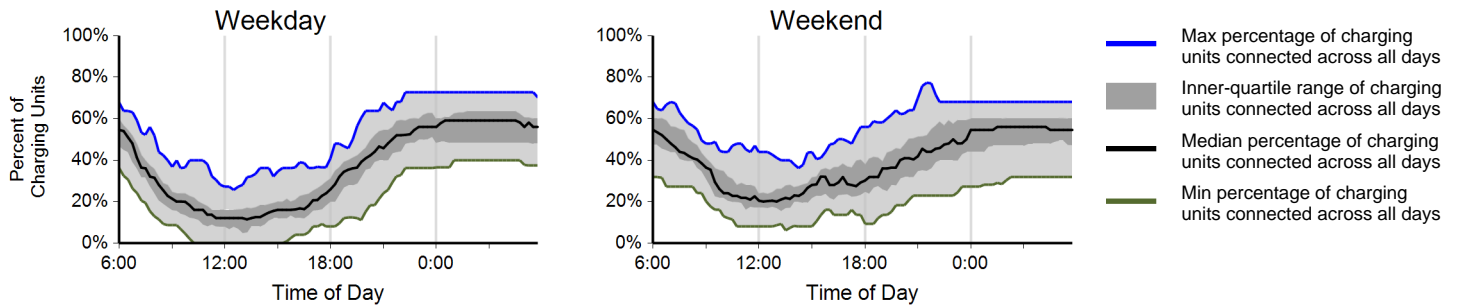
Region: Memphis, TN Metropolitan Area

Report period: April 2012 through June 2012

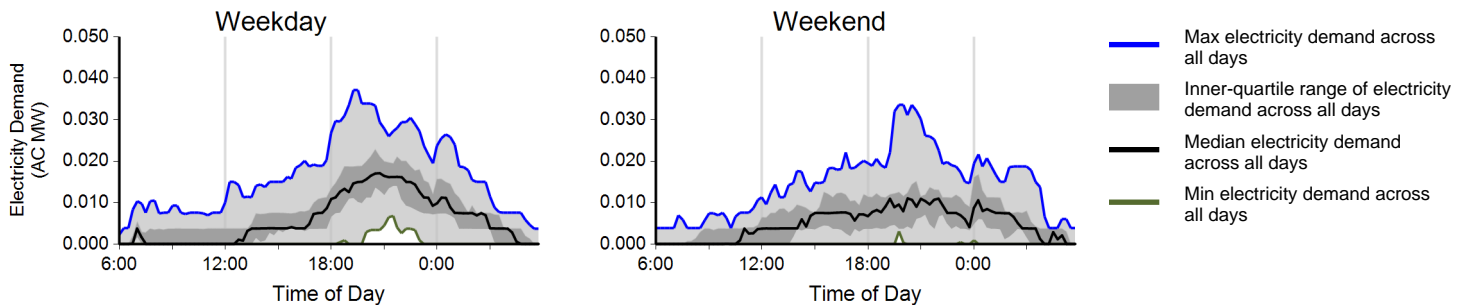
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	1,265	446	1,711
Electricity consumed (AC MWh)	10.04	3.34	13.37
Percent of time with a vehicle connected to EVSE	36%	38%	36%
Percent of time with a vehicle drawing power from EVSE	7%	6%	7%
Average number of charging events started per EVSE per day	0.81	0.72	0.79

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Memphis, TN Metropolitan Area

Report period: April 2012 through June 2012

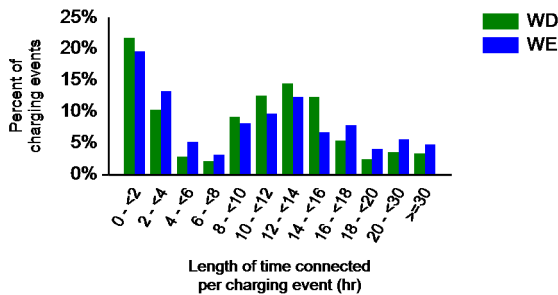
## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	96%	4%	0%
Percent of electricity consumed	97%	3%	0%

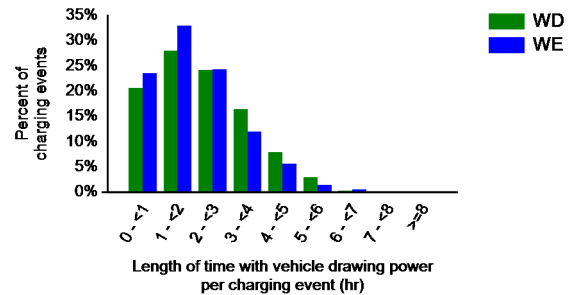
## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	11.4	11.0	11.3
Average length of time with vehicle drawing power per charging event (hr)	2.2	2.0	2.2
Average electricity consumed per charging event (AC kWh)	8.1	7.1	7.8

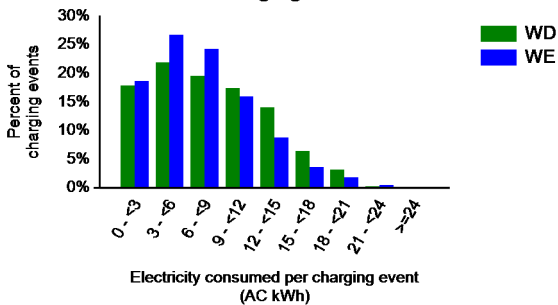
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



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



**Distribution of Electricity Consumed per Charging Event**



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

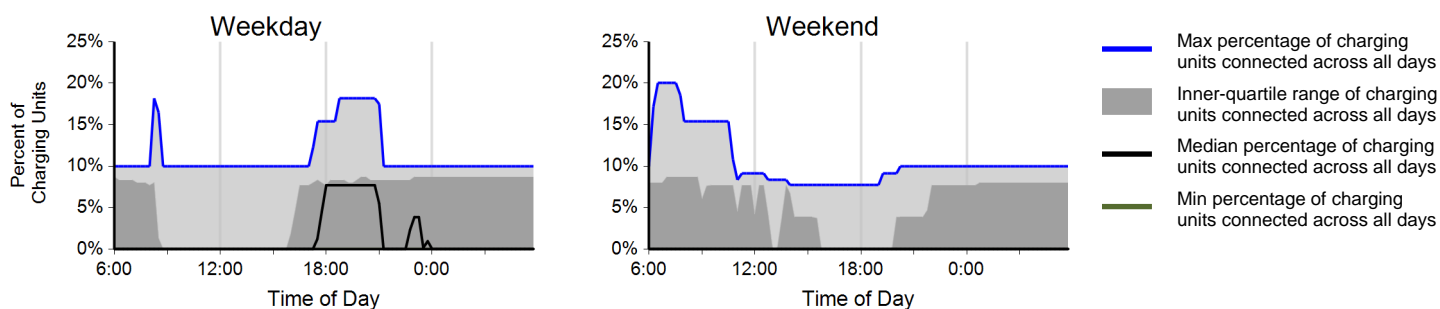
Region: Memphis, TN Metropolitan Area

Report period: April 2012 through June 2012

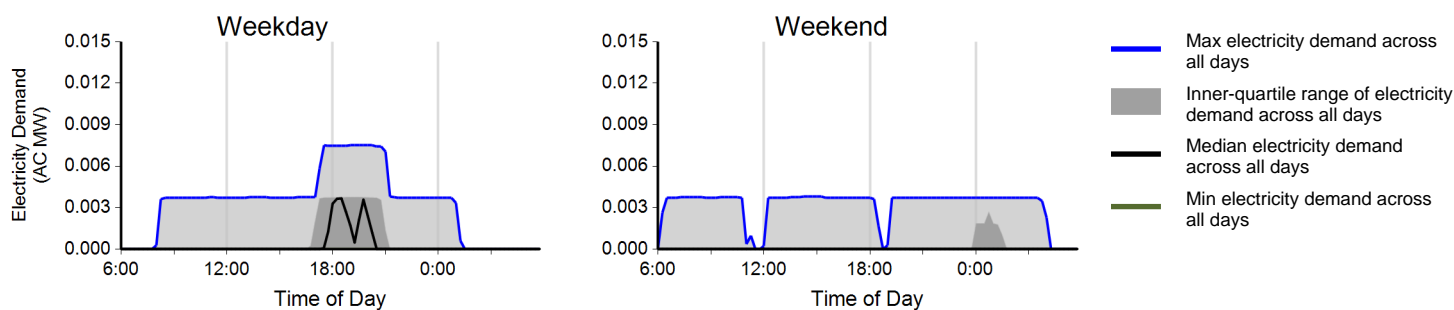
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	85	20	105
Electricity consumed (AC MWh)	0.91	0.28	1.19
Percent of time with a vehicle connected to EVSE	4%	4%	4%
Percent of time with a vehicle drawing power from EVSE	1%	1%	1%
Average number of charging events started per EVSE per day	0.12	0.07	0.11

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Memphis, TN Metropolitan Area

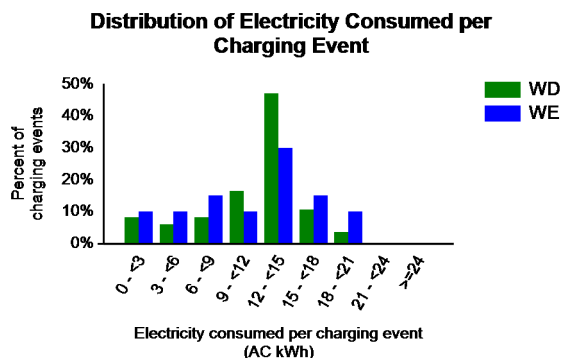
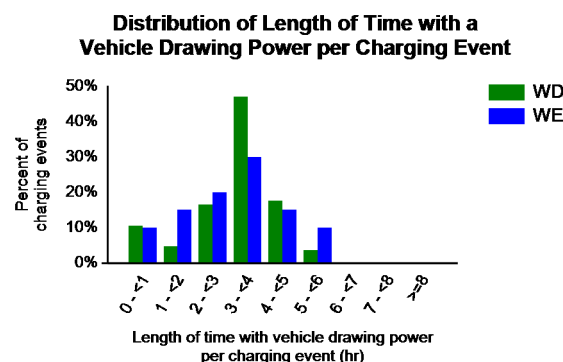
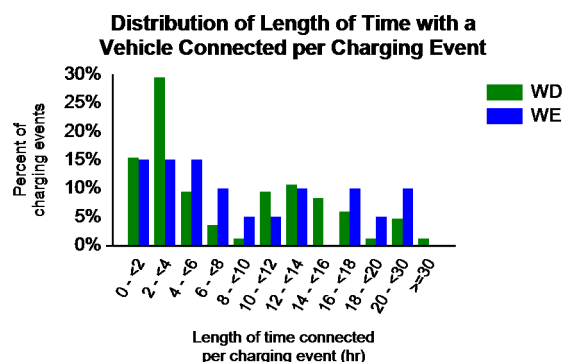
Report period: April 2012 through June 2012

## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	53%	3%	44%
Percent of electricity consumed	63%	0%	36%

## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	8.4	9.4	8.6
Average length of time with vehicle drawing power per charging event (hr)	3.1	3.1	3.1
Average electricity consumed per charging event (AC kWh)	11.4	11.2	11.4



## EV Project Electric Vehicle Charging Infrastructure Summary Report

Region: Nashville, TN Metropolitan Area

Report period: April 2012 through June 2012

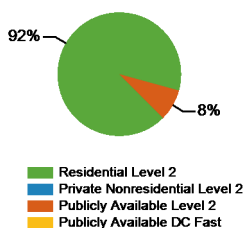
Number of EV Project vehicles in region: 253



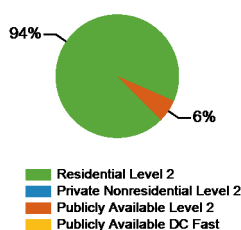
### Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units <sup>1</sup>	252	0	141	0	393
Number of charging events <sup>2</sup>	17,220	0	1,547	0	18,767
Electricity consumed (AC MWh)	144.25	0.00	9.11	0.00	153.36
Percent of time with a vehicle connected to charging unit	35%	0%	4%	0%	25%
Percent of time with a vehicle drawing power from charging unit	7%	0%	1%	0%	5%

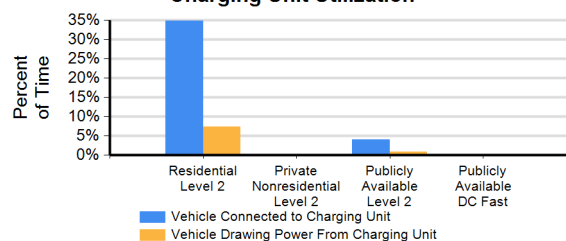
Number of Charge Events



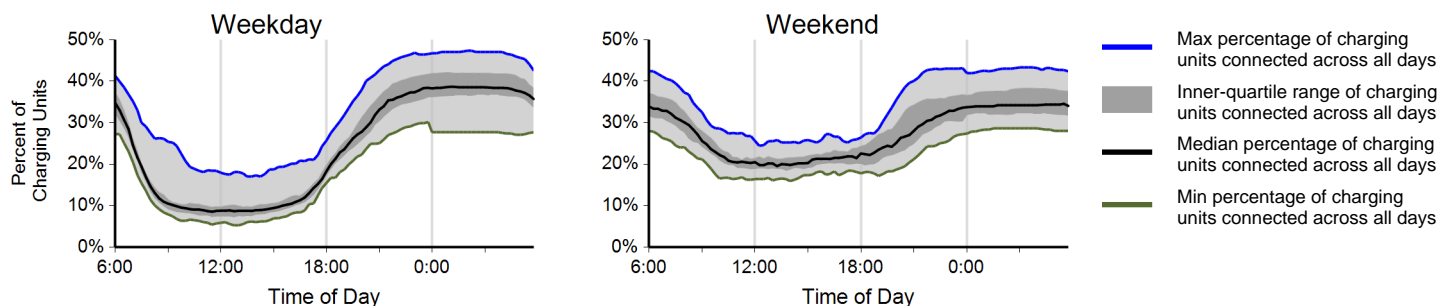
Electricity Consumed



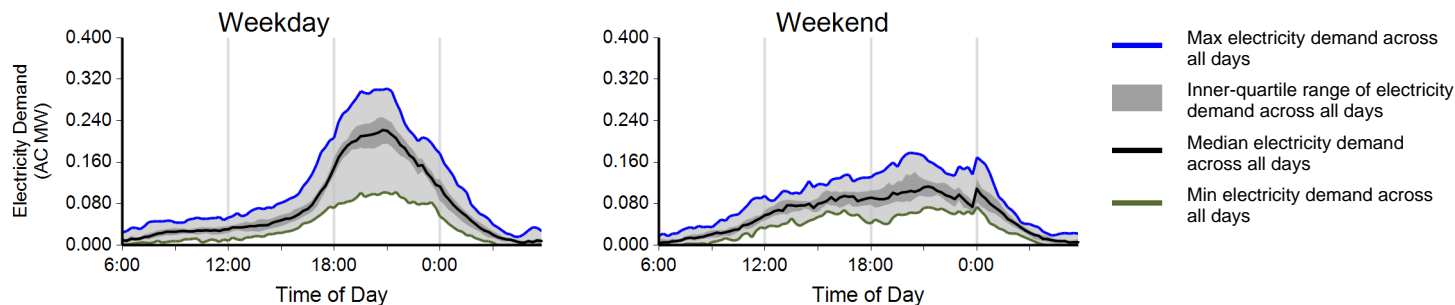
Charging Unit Utilization



### Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



### Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



<sup>1</sup> Includes all charging units that were in use by the end of the reporting period

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

<sup>3</sup> Considers the connection status of all charging units every minute

<sup>4</sup> Based on 15 minute rolling average power output from all charging units

# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

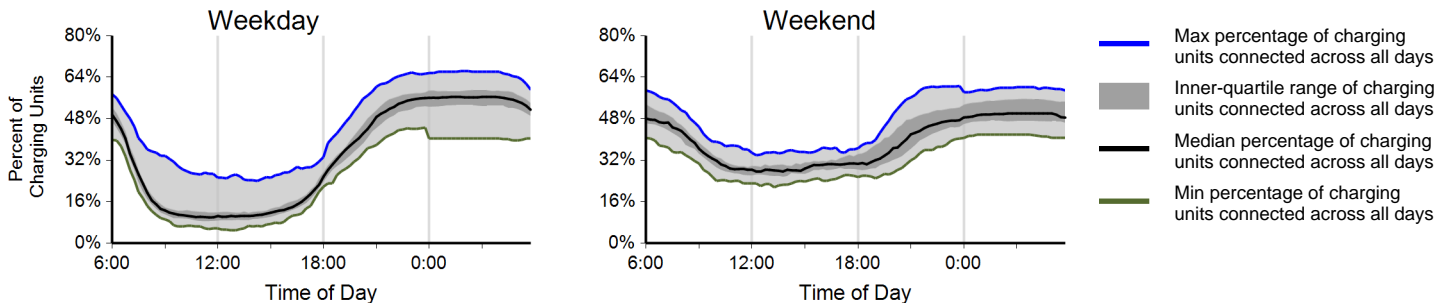
Region: Nashville, TN Metropolitan Area

Report period: April 2012 through June 2012

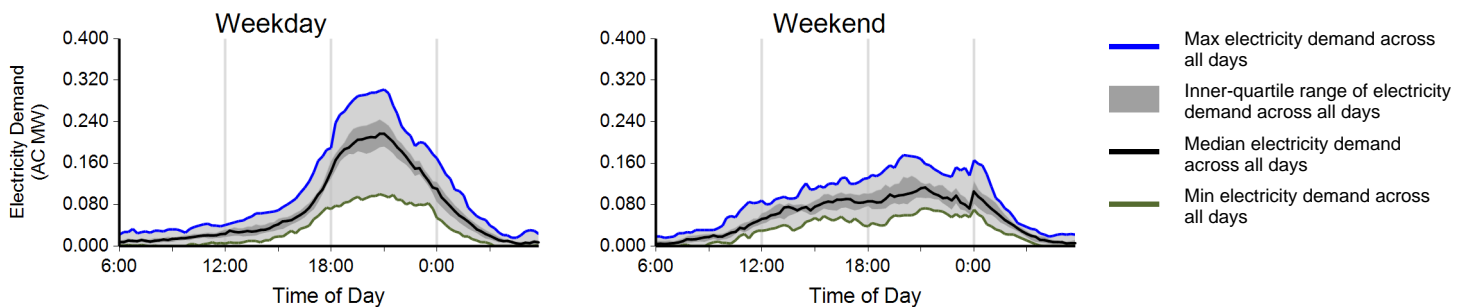
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	12,494	4,726	17,220
Electricity consumed (AC MWh)	108.50	35.75	144.25
Percent of time with a vehicle connected to EVSE	34%	39%	35%
Percent of time with a vehicle drawing power from EVSE	8%	6%	7%
Average number of charging events started per EVSE per day	0.78	0.74	0.77

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Nashville, TN Metropolitan Area

Report period: April 2012 through June 2012

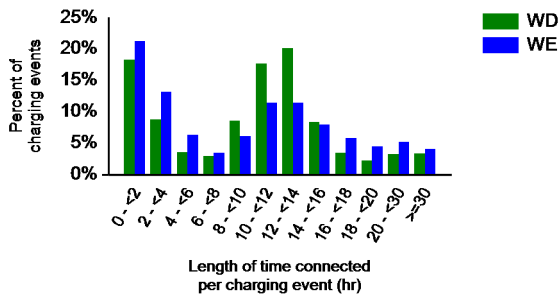
## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	94%	6%	0%
Percent of electricity consumed	96%	4%	0%

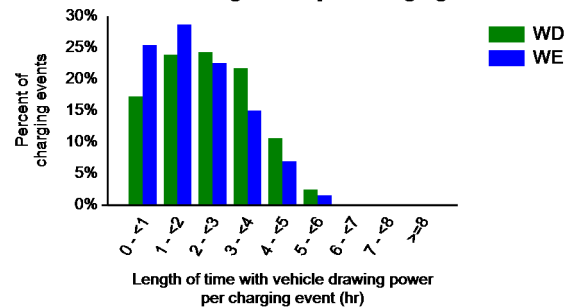
## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	11.2	10.7	11.0
Average length of time with vehicle drawing power per charging event (hr)	2.4	2.0	2.3
Average electricity consumed per charging event (AC kWh)	8.8	7.3	8.4

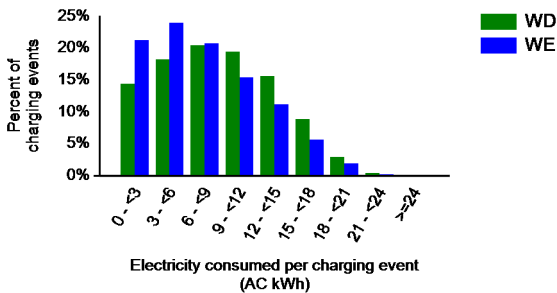
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



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



**Distribution of Electricity Consumed per Charging Event**



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

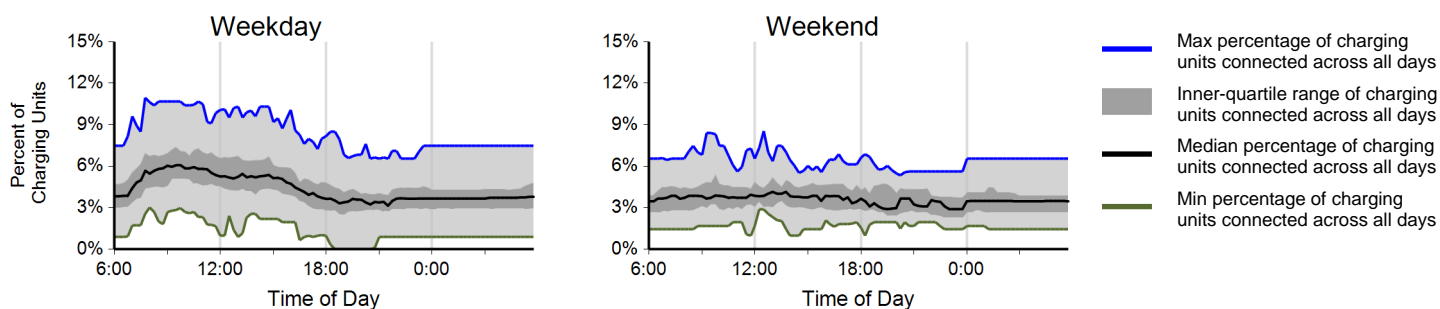
Region: Nashville, TN Metropolitan Area

Report period: April 2012 through June 2012

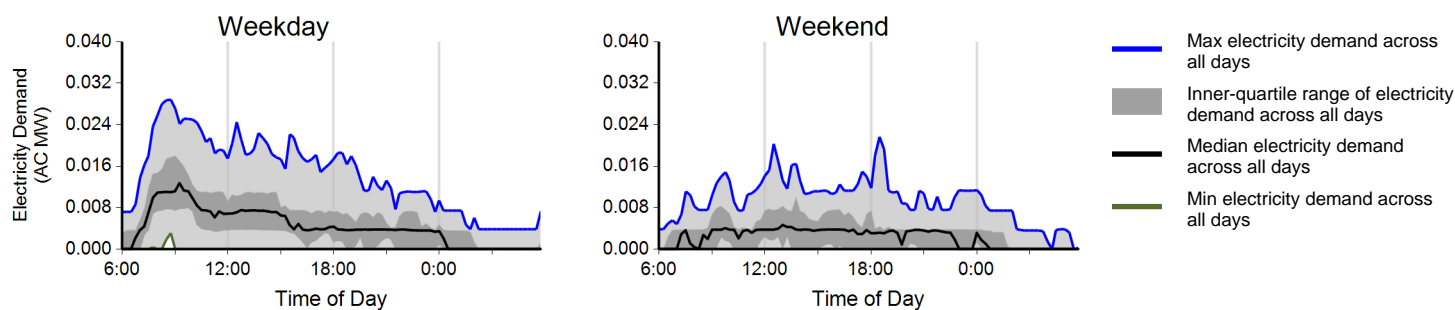
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	1,216	331	1,547
Electricity consumed (AC MWh)	7.46	1.64	9.11
Percent of time with a vehicle connected to EVSE	4%	4%	4%
Percent of time with a vehicle drawing power from EVSE	1%	1%	1%
Average number of charging events started per EVSE per day	0.16	0.11	0.14

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>





# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Nashville, TN Metropolitan Area

Report period: April 2012 through June 2012

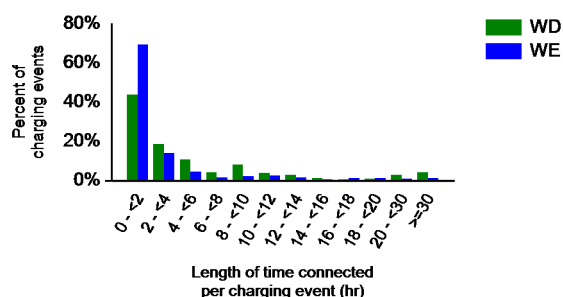
## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	53%	6%	41%
Percent of electricity consumed	56%	4%	39%

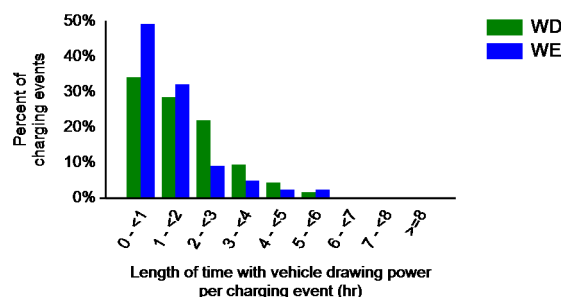
## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	8.1	3.3	7.1
Average length of time with vehicle drawing power per charging event (hr)	1.7	1.4	1.7
Average electricity consumed per charging event (AC kWh)	6.2	4.8	5.9

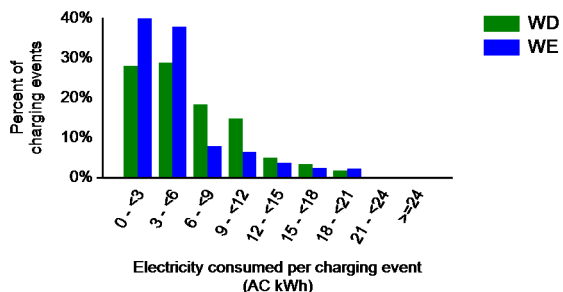
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



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



**Distribution of Electricity Consumed per Charging Event**



# EV Project Electric Vehicle Charging Infrastructure Summary Report

Region: Dallas/Ft. Worth, TX Metropolitan Area

Report period: April 2012 through June 2012

Number of EV Project vehicles in region: 65



## Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units <sup>1</sup>	67	0	105	0	172
Number of charging events <sup>2</sup>	6,443	0	796	0	7,239
Electricity consumed (AC MWh)	37.35	0.00	4.21	0.00	41.56
Percent of time with a vehicle connected to charging unit	48%	0%	3%	0%	23%
Percent of time with a vehicle drawing power from charging unit	9%	0%	1%	0%	4%

Number of Charge Events



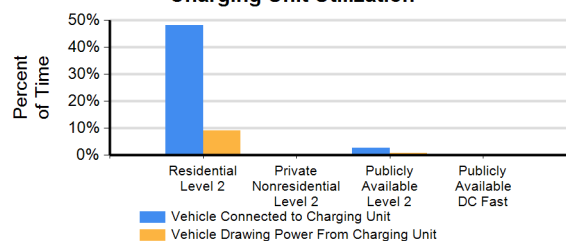
- Residential Level 2
- Private Nonresidential Level 2
- Publicly Available Level 2
- Publicly Available DC Fast

Electricity Consumed

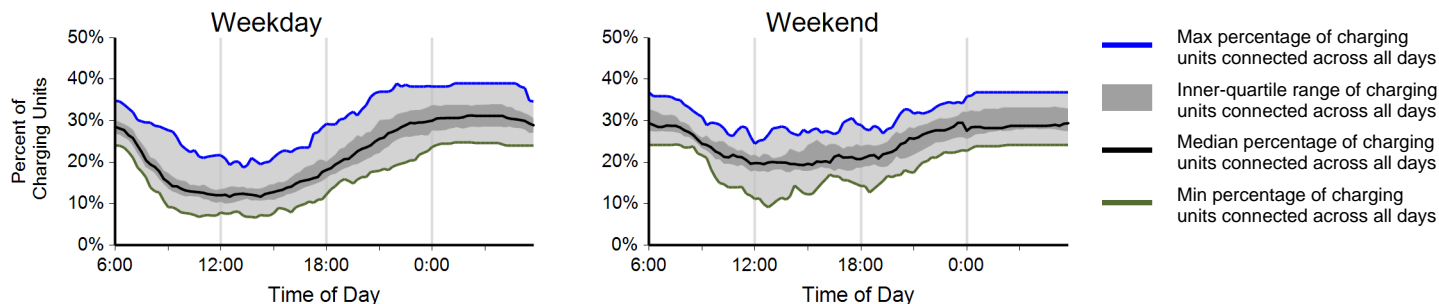


- Residential Level 2
- Private Nonresidential Level 2
- Publicly Available Level 2
- Publicly Available DC Fast

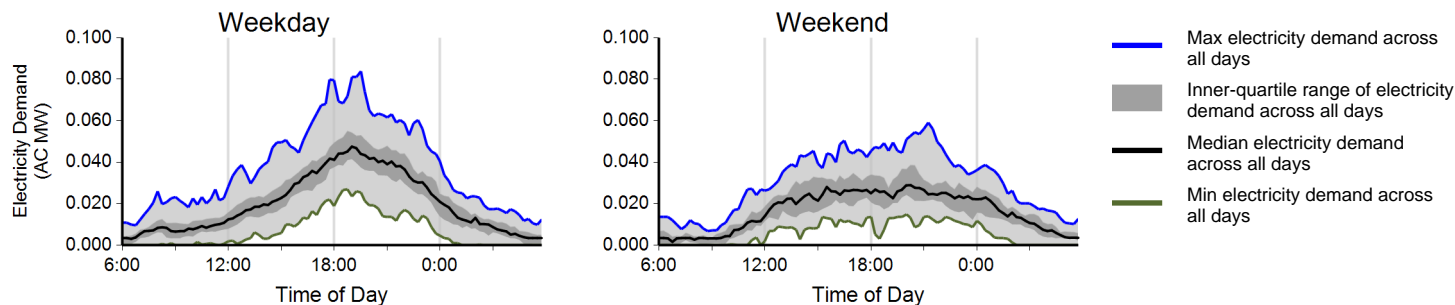
Charging Unit Utilization



## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>


<sup>1</sup> Includes all charging units that were in use by the end of the reporting period

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

<sup>3</sup> Considers the connection status of all charging units every minute

<sup>4</sup> Based on 15 minute rolling average power output from all charging units

# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

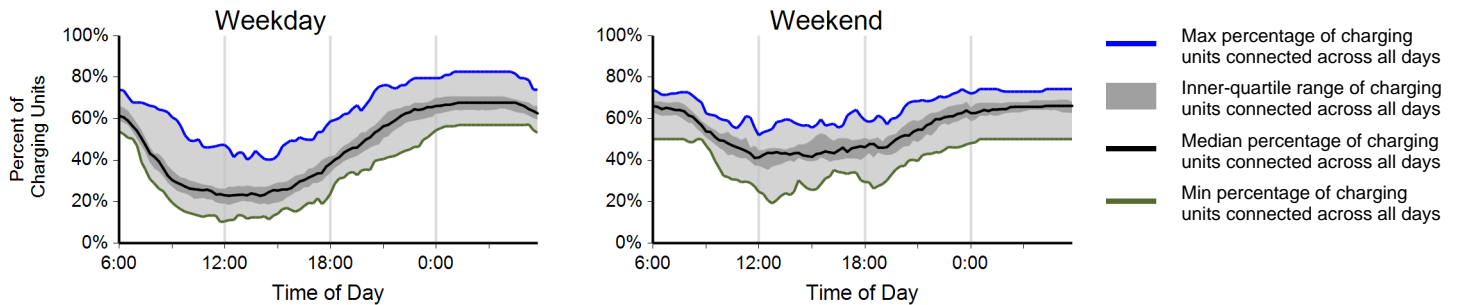
Region: Dallas/Ft. Worth, TX Metropolitan Area

Report period: April 2012 through June 2012

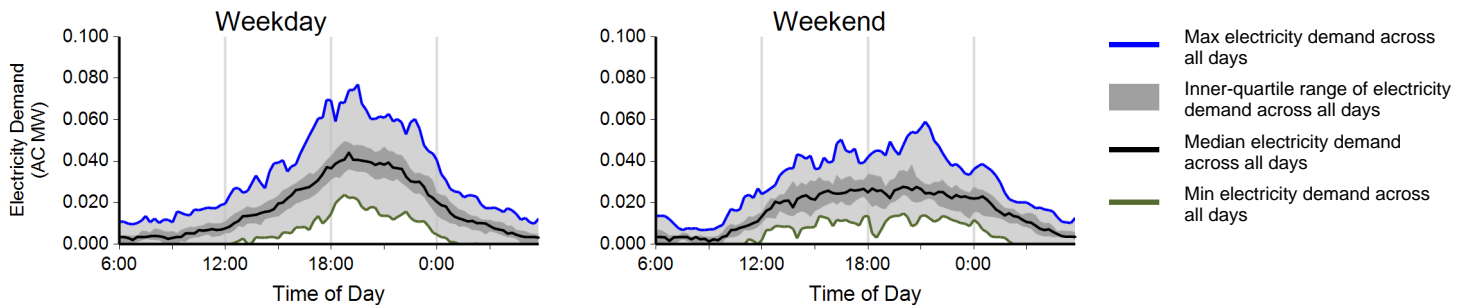
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	4,702	1,741	6,443
Electricity consumed (AC MWh)	27.30	10.05	37.35
Percent of time with a vehicle connected to EVSE	46%	53%	48%
Percent of time with a vehicle drawing power from EVSE	9%	9%	9%
Average number of charging events started per EVSE per day	1.15	1.07	1.13

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Dallas/Ft. Worth, TX Metropolitan Area

Report period: April 2012 through June 2012

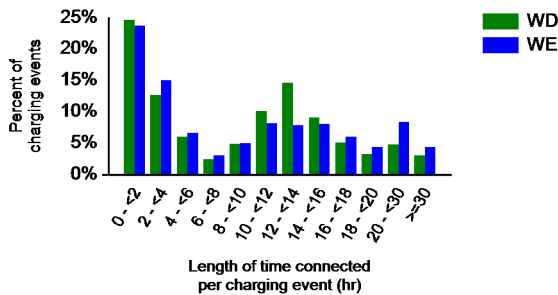
## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	0%	100%	0%
Percent of electricity consumed	0%	100%	0%

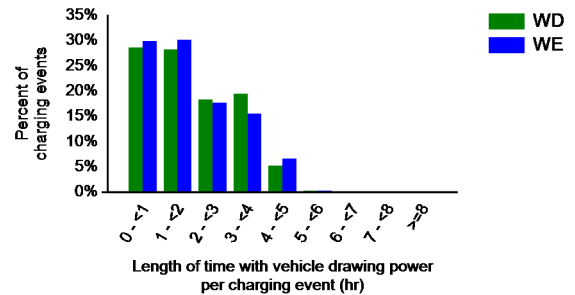
## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	10.5	10.4	10.4
Average length of time with vehicle drawing power per charging event (hr)	2.0	1.9	1.9
Average electricity consumed per charging event (AC kWh)	5.9	5.6	5.8

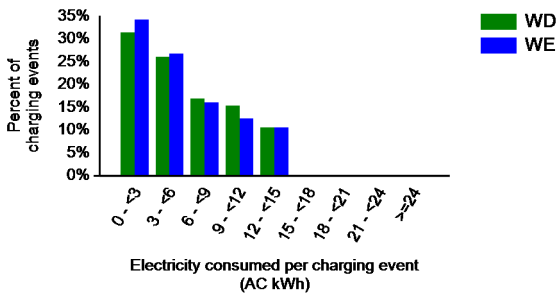
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



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



**Distribution of Electricity Consumed per Charging Event**



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

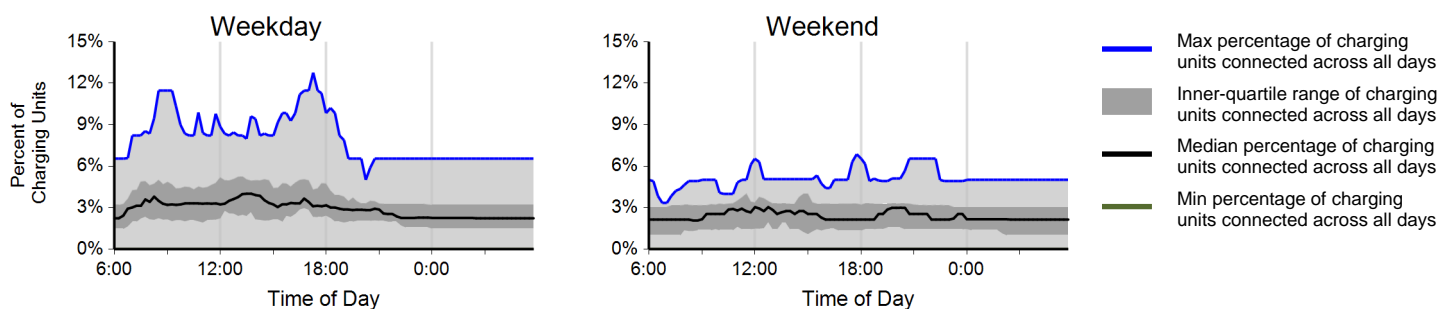
Region: Dallas/Ft. Worth, TX Metropolitan Area

Report period: April 2012 through June 2012

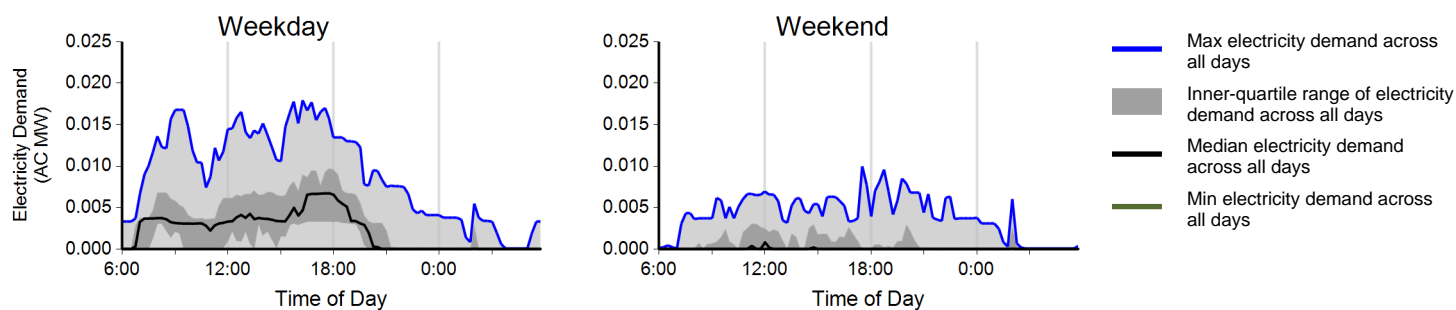
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	692	104	796
Electricity consumed (AC MWh)	3.86	0.36	4.21
Percent of time with a vehicle connected to EVSE	3%	2%	3%
Percent of time with a vehicle drawing power from EVSE	1%	0%	1%
Average number of charging events started per EVSE per day	0.13	0.05	0.11

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Dallas/Ft. Worth, TX Metropolitan Area

Report period: April 2012 through June 2012

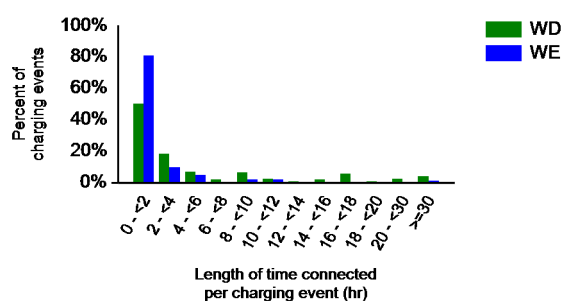
## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	0%	13%	87%
Percent of electricity consumed	0%	11%	89%

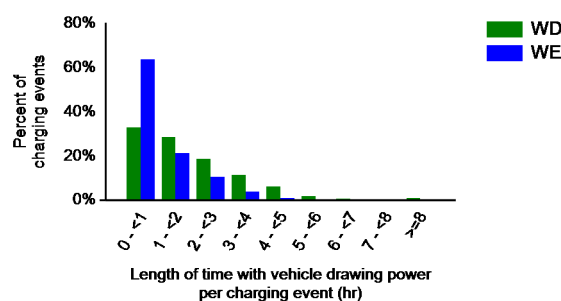
## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	6.9	2.2	6.3
Average length of time with vehicle drawing power per charging event (hr)	2.1	1.1	2.0
Average electricity consumed per charging event (AC kWh)	5.6	3.2	5.3

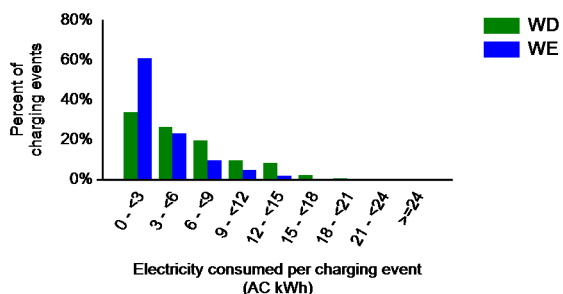
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



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



**Distribution of Electricity Consumed per Charging Event**



## EV Project Electric Vehicle Charging Infrastructure Summary Report

Region: Houston, TX Metropolitan Area

Report period: April 2012 through June 2012

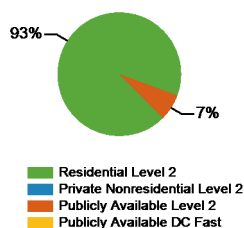
Number of EV Project vehicles in region: 45



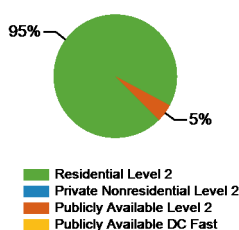
### Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units <sup>1</sup>	45	0	47	0	92
Number of charging events <sup>2</sup>	3,693	0	274	0	3,967
Electricity consumed (AC MWh)	25.20	0.00	1.24	0.00	26.44
Percent of time with a vehicle connected to charging unit	46%	0%	1%	0%	27%
Percent of time with a vehicle drawing power from charging unit	9%	0%	1%	0%	5%

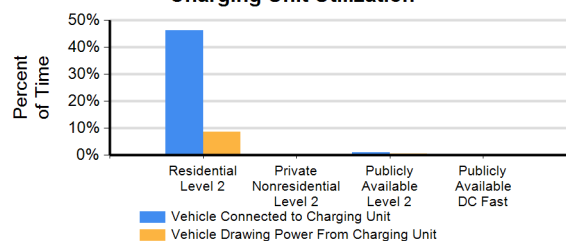
Number of Charge Events



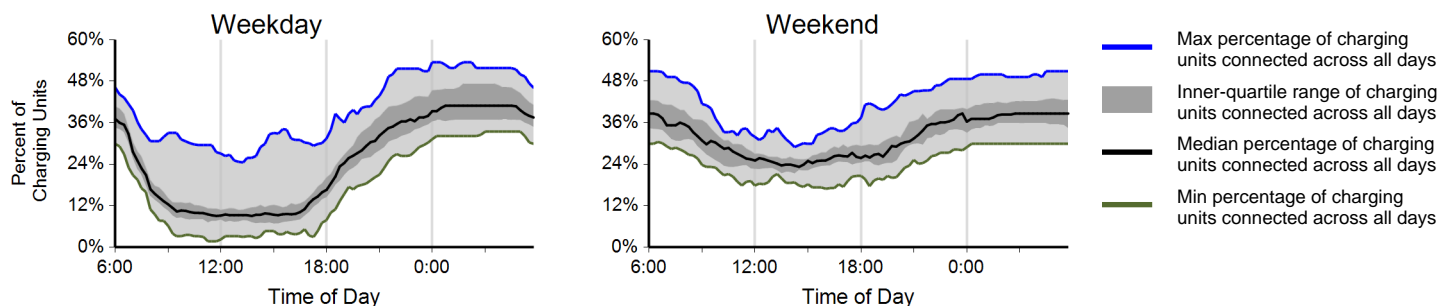
Electricity Consumed



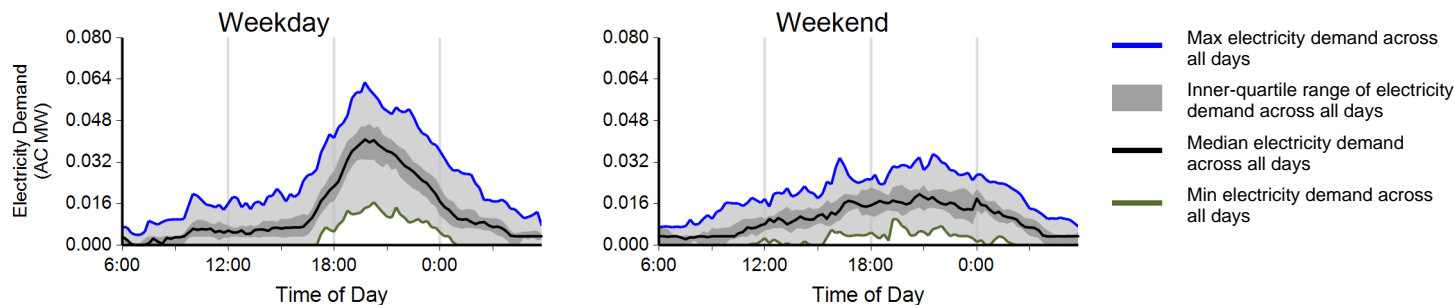
Charging Unit Utilization



### Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



### Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



<sup>1</sup> Includes all charging units that were in use by the end of the reporting period

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

<sup>3</sup> Considers the connection status of all charging units every minute

<sup>4</sup> Based on 15 minute rolling average power output from all charging units

# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

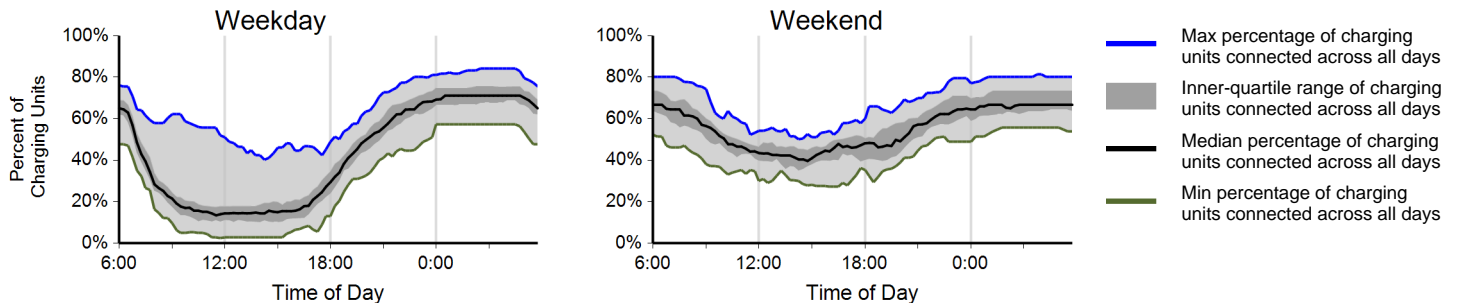
Region: Houston, TX Metropolitan Area

Report period: April 2012 through June 2012

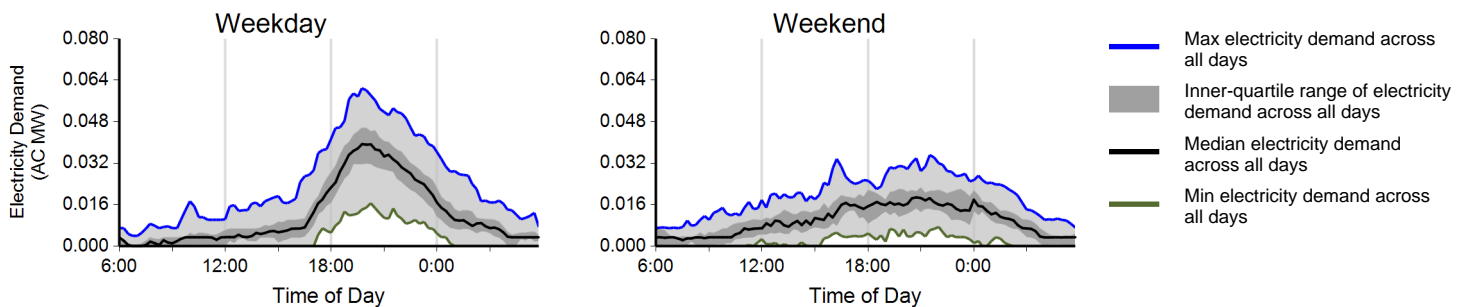
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	2,673	1,020	3,693
Electricity consumed (AC MWh)	18.99	6.21	25.20
Percent of time with a vehicle connected to EVSE	43%	55%	46%
Percent of time with a vehicle drawing power from EVSE	9%	8%	9%
Average number of charging events started per EVSE per day	0.95	0.91	0.94

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>





# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Houston, TX Metropolitan Area

Report period: April 2012 through June 2012

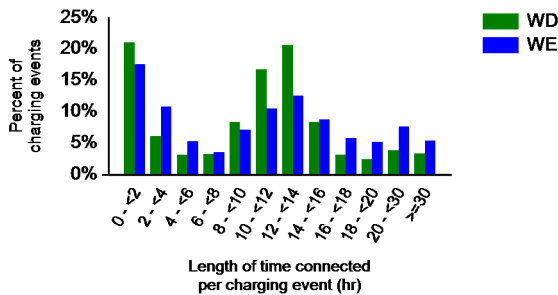
## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	0%	100%	0%
Percent of electricity consumed	0%	100%	0%

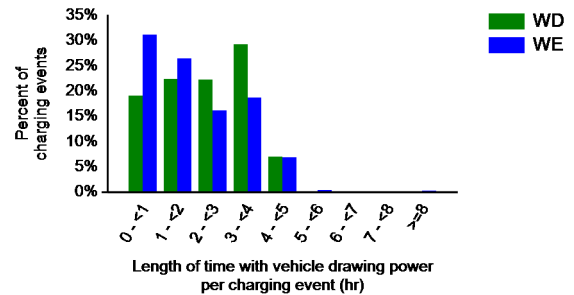
## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	11.5	12.9	11.9
Average length of time with vehicle drawing power per charging event (hr)	2.4	2.0	2.3
Average electricity consumed per charging event (AC kWh)	7.2	5.9	6.8

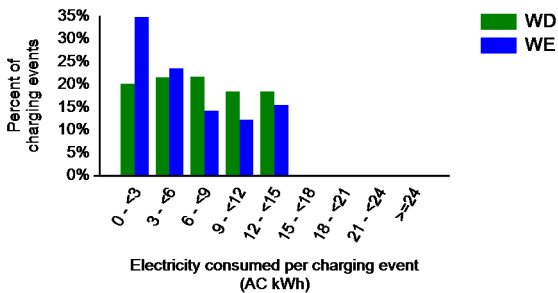
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



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



**Distribution of Electricity Consumed per Charging Event**



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

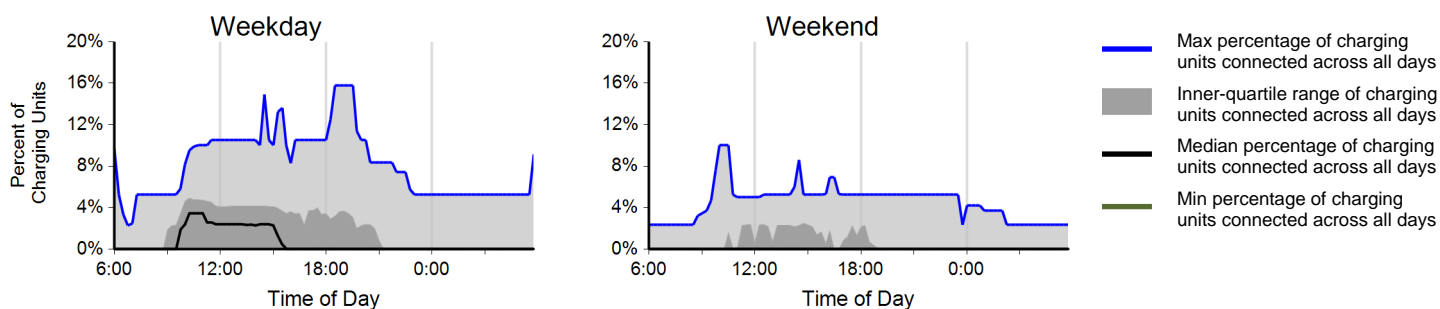
Region: Houston, TX Metropolitan Area

Report period: April 2012 through June 2012

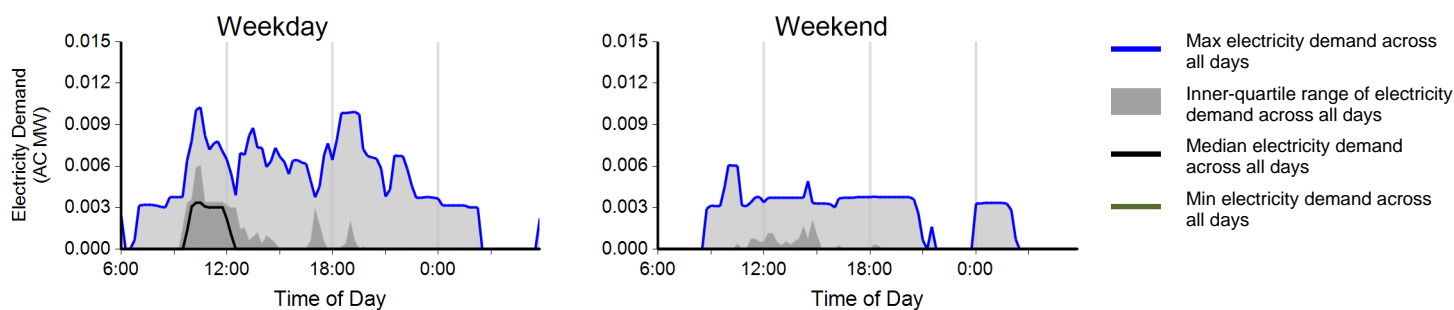
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	233	41	274
Electricity consumed (AC MWh)	1.05	0.19	1.24
Percent of time with a vehicle connected to EVSE	1%	0%	1%
Percent of time with a vehicle drawing power from EVSE	1%	0%	1%
Average number of charging events started per EVSE per day	0.11	0.05	0.09

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Houston, TX Metropolitan Area

Report period: April 2012 through June 2012

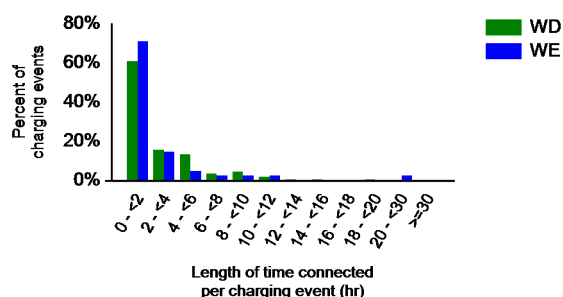
## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	0%	28%	72%
Percent of electricity consumed	0%	36%	64%

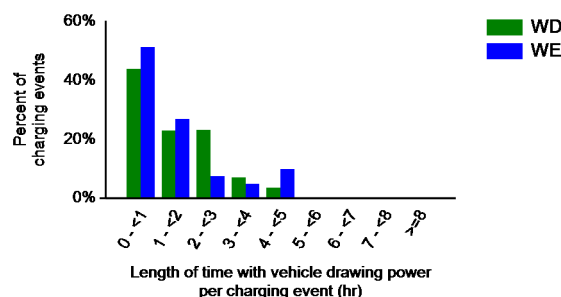
## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	2.5	2.3	2.5
Average length of time with vehicle drawing power per charging event (hr)	1.5	1.4	1.4
Average electricity consumed per charging event (AC kWh)	4.5	4.4	4.5

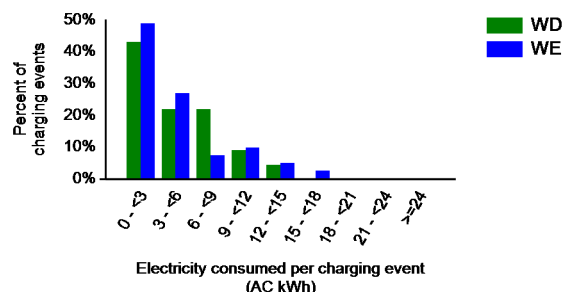
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



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



**Distribution of Electricity Consumed per Charging Event**



# EV Project Electric Vehicle Charging Infrastructure Summary Report

Region: Washington State

Report period: April 2012 through June 2012

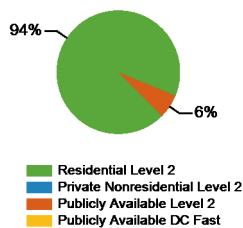
Number of EV Project vehicles in region: 503



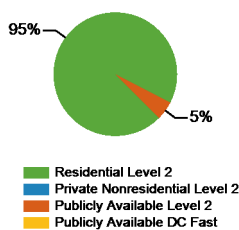
## Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units <sup>1</sup>	501	0	182	0	683
Number of charging events <sup>2</sup>	36,176	0	2,425	0	38,601
Electricity consumed (AC MWh)	279.38	0.00	14.44	0.00	293.82
Percent of time with a vehicle connected to charging unit	37%	0%	5%	0%	30%
Percent of time with a vehicle drawing power from charging unit	7%	0%	1%	0%	6%

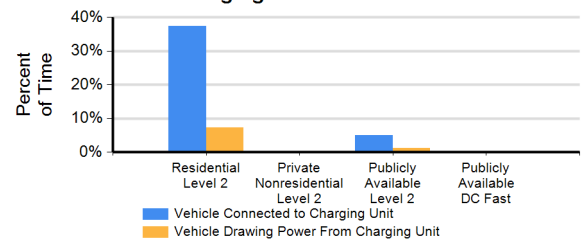
Number of Charge Events



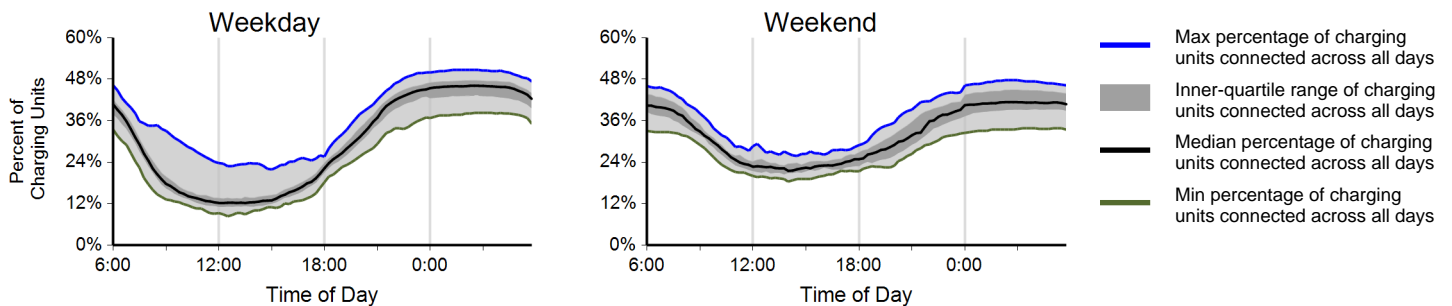
Electricity Consumed



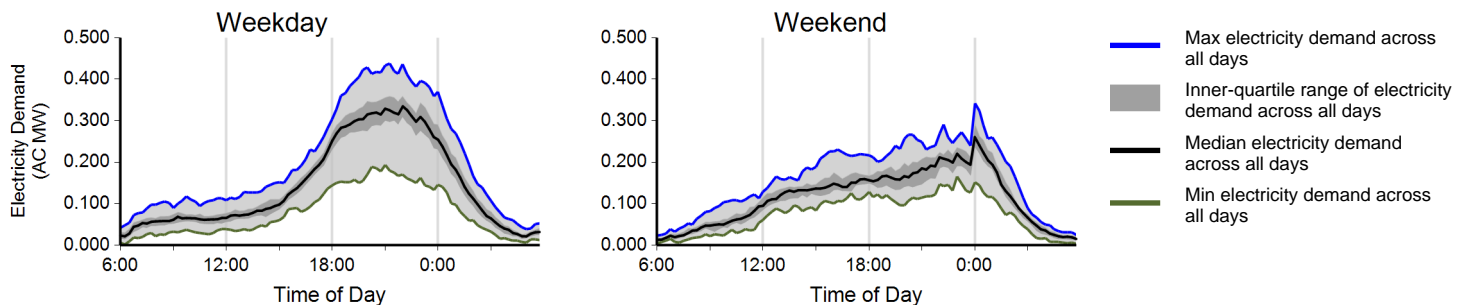
Charging Unit Utilization



## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>


<sup>1</sup> Includes all charging units that were in use by the end of the reporting period

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

<sup>3</sup> Considers the connection status of all charging units every minute

<sup>4</sup> Based on 15 minute rolling average power output from all charging units

# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

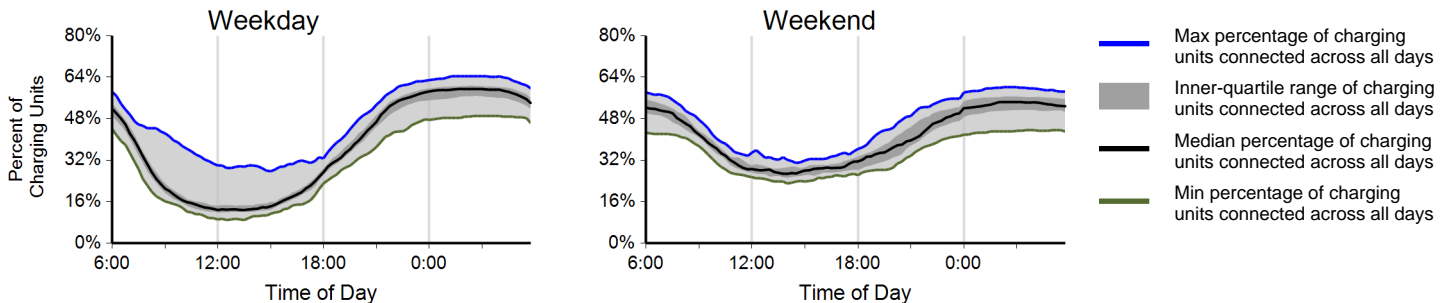
Region: Washington State

Report period: April 2012 through June 2012

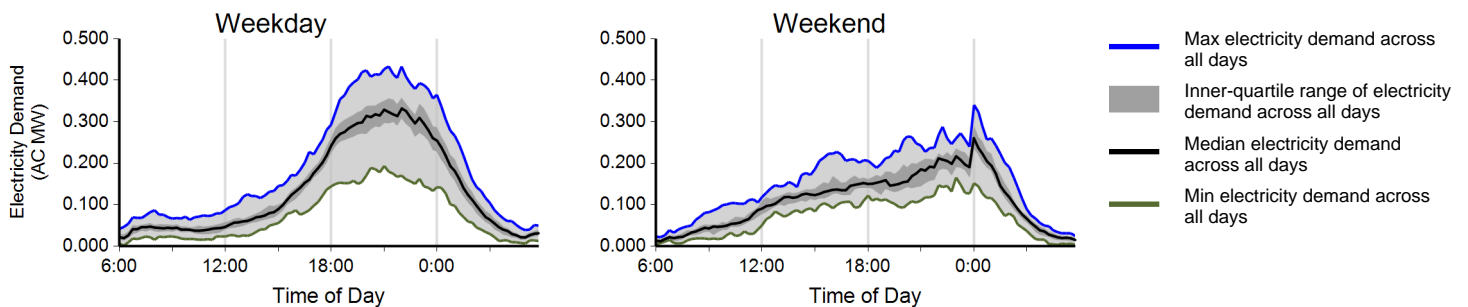
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	26,851	9,325	36,176
Electricity consumed (AC MWh)	210.14	69.24	279.37
Percent of time with a vehicle connected to EVSE	36%	40%	37%
Percent of time with a vehicle drawing power from EVSE	8%	6%	7%
Average number of charging events started per EVSE per day	0.84	0.73	0.81

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Washington State

Report period: April 2012 through June 2012

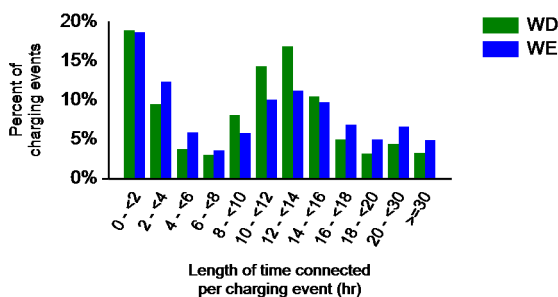
## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	91%	9%	0%
Percent of electricity consumed	93%	7%	0%

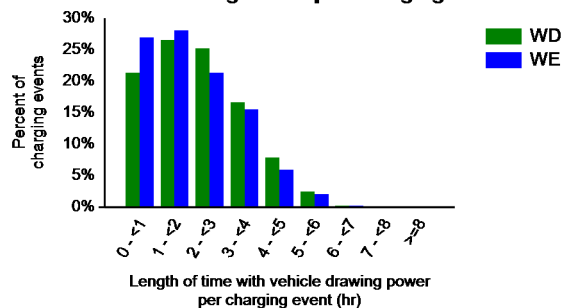
## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	11.2	11.5	11.3
Average length of time with vehicle drawing power per charging event (hr)	2.2	2.0	2.2
Average electricity consumed per charging event (AC kWh)	7.9	7.2	7.7

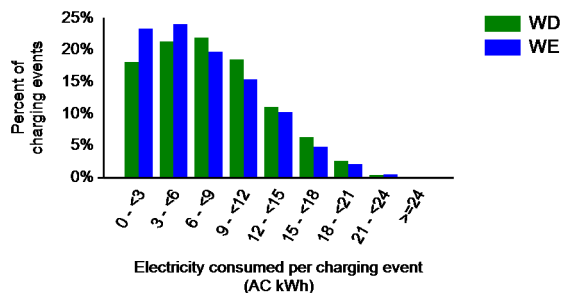
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



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



**Distribution of Electricity Consumed per Charging Event**



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

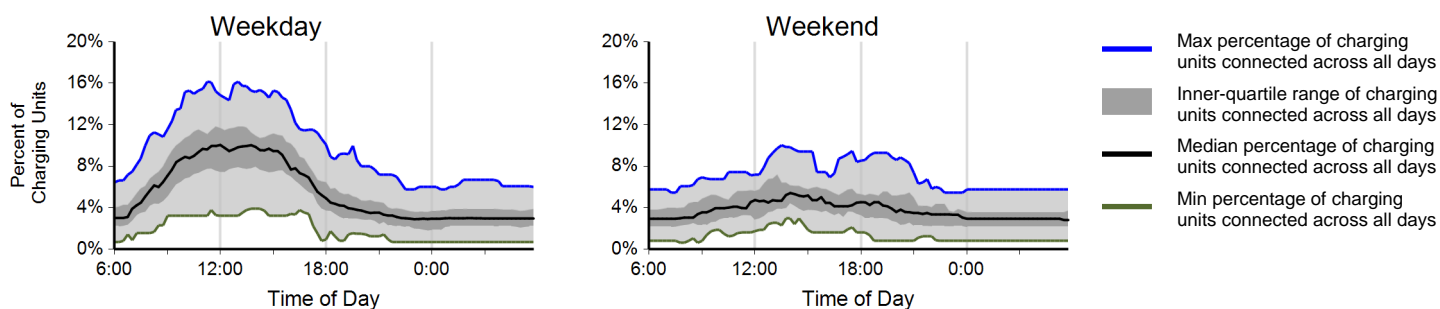
Region: Washington State

Report period: April 2012 through June 2012

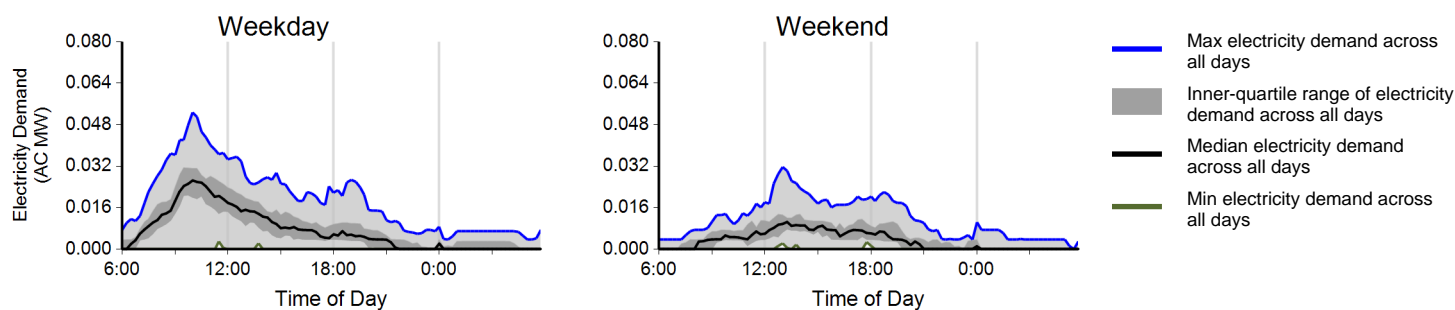
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	1,958	467	2,425
Electricity consumed (AC MWh)	12.02	2.42	14.44
Percent of time with a vehicle connected to EVSE	5%	4%	5%
Percent of time with a vehicle drawing power from EVSE	1%	1%	1%
Average number of charging events started per EVSE per day	0.20	0.12	0.18

## Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day<sup>3</sup>



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day<sup>4</sup>



# Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Washington State

Report period: April 2012 through June 2012

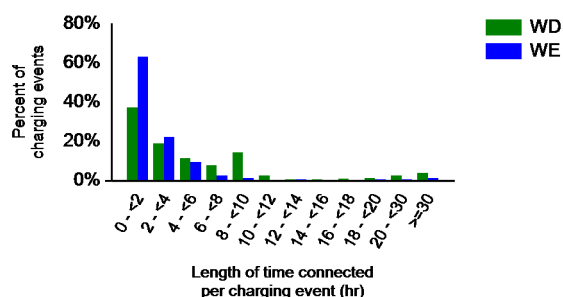
## Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	34%	5%	62%
Percent of electricity consumed	34%	3%	63%

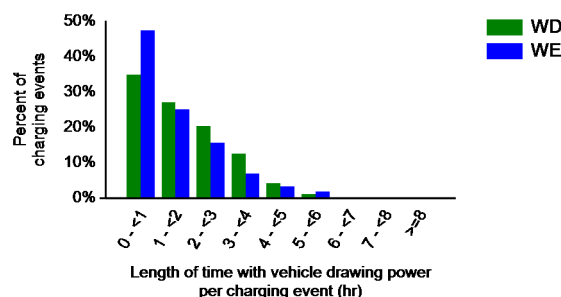
## Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	7.9	2.9	6.9
Average length of time with vehicle drawing power per charging event (hr)	1.8	1.5	1.7
Average electricity consumed per charging event (AC kWh)	6.1	5.2	6.0

**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 Electricity Consumed per Charging Event**

