

EV Project Electric Vehicle Charging Infrastructure Summary Report



Region: ALL

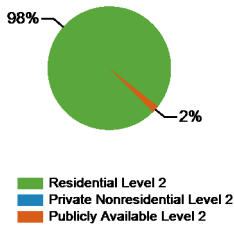
Report period: July 2011 through September 2011

Number of EV Project vehicles in region: 2394

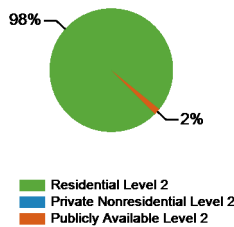
Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units ¹	2,413	0	170	0	2,583
Number of charging events ²	118,239	0	2,258	0	120,497
Electricity consumed (AC MWh)	852.17	0.00	14.15	0.00	866.31
Percent of time with a vehicle connected to charging unit	29%	0%	7%	0%	28%
Percent of time with a vehicle drawing power from charging unit	6%	0%	2%	0%	6%

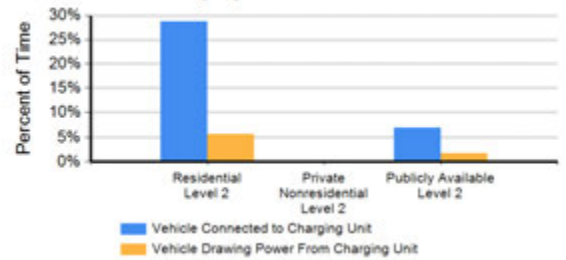
Number of Charge Events



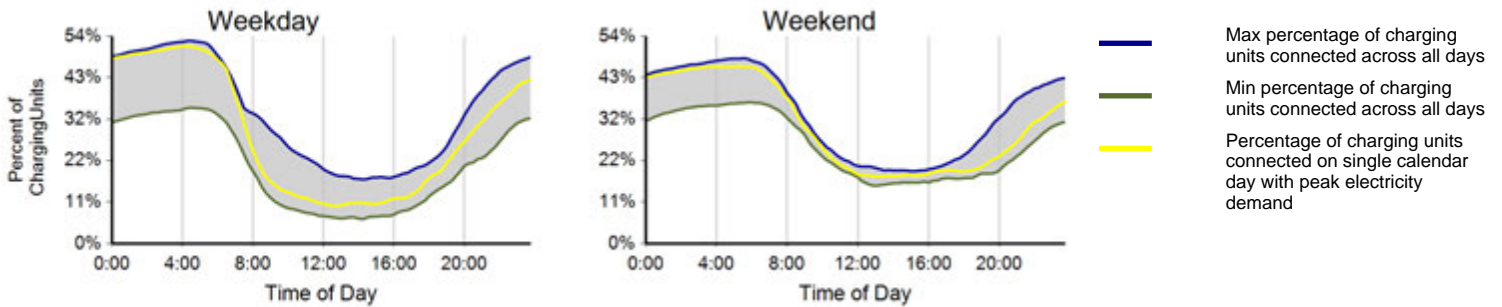
Electricity Consumed



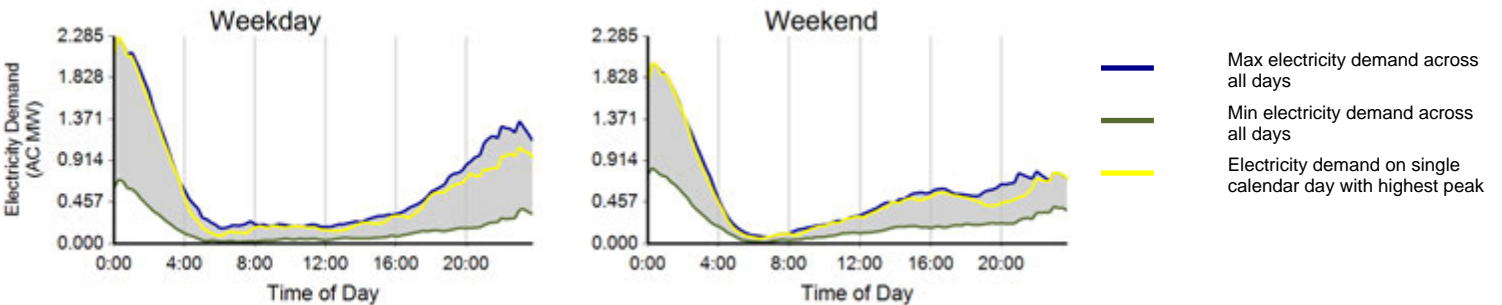
Charging Unit Utilization



Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



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

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

³ Considers the connection status of all charging units every minute

⁴ Based on 15 minute rolling average power output from all charging units

Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

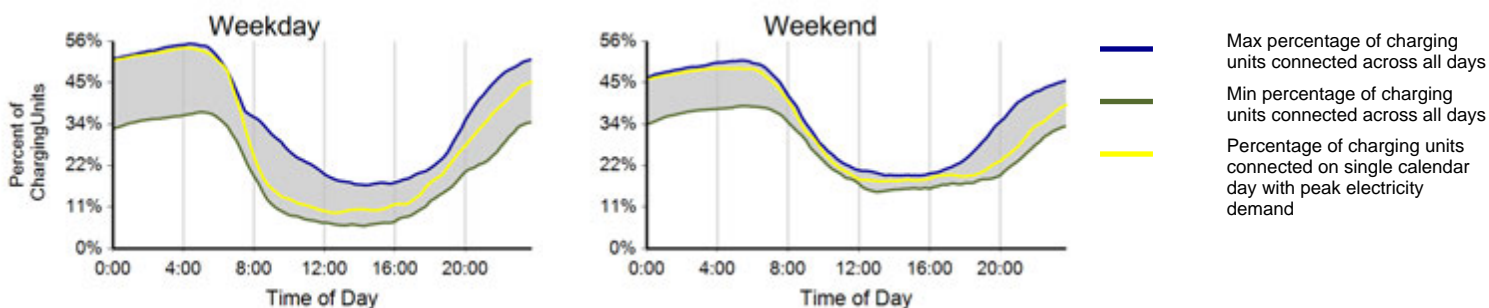
Region: ALL

Report period: July 2011 through September 2011

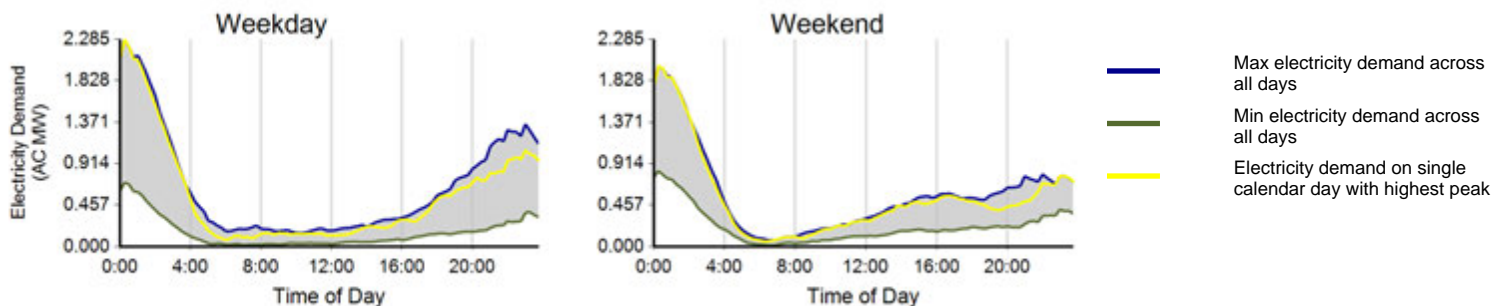
EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	86,398	31,841	118,239
Electricity consumed (AC MWh)	625.10	227.06	852.17
Percent of time with a vehicle connected to EVSE	28%	30%	29%
Percent of time with a vehicle drawing power from EVSE	6%	5%	6%
Average number of charging events started per EVSE per day	0.71	0.68	0.70

Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: ALL

Report period: July 2011 through September 2011

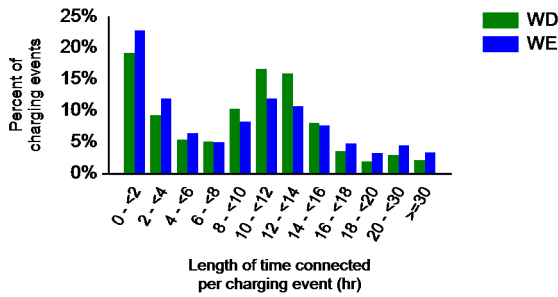
Vehicles Charged

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

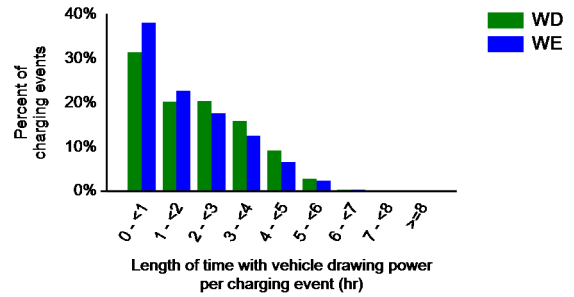
Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	9.9	10.0	9.9
Average length of time with vehicle drawing power per charging event (hr)	2.0	1.8	2.0
Average electricity consumed per charging event (AC kWh)	7.5	6.5	7.2

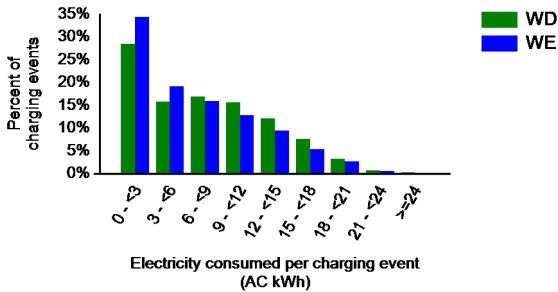
Distribution of Length of Time with a Vehicle Connected per Charging Event



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



Distribution of Electricity Consumed per Charging Event



Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

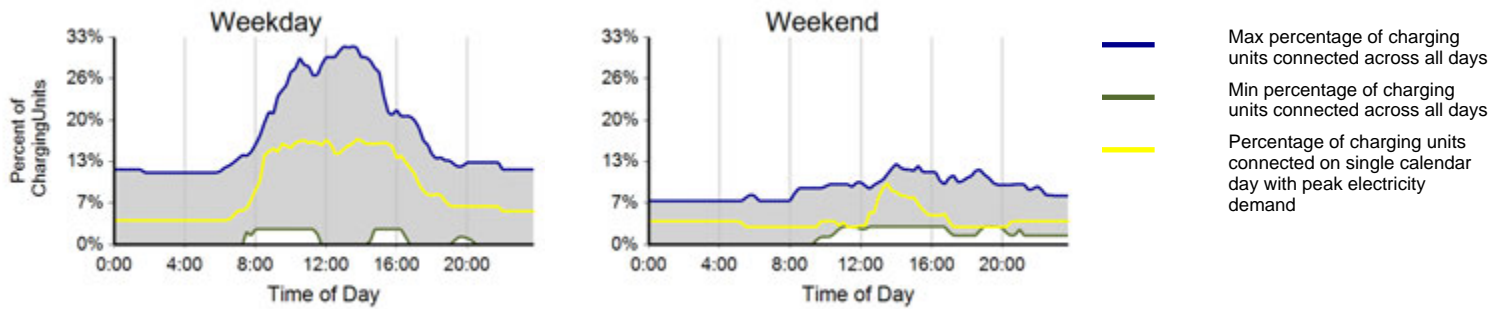
Region: ALL

Report period: July 2011 through September 2011

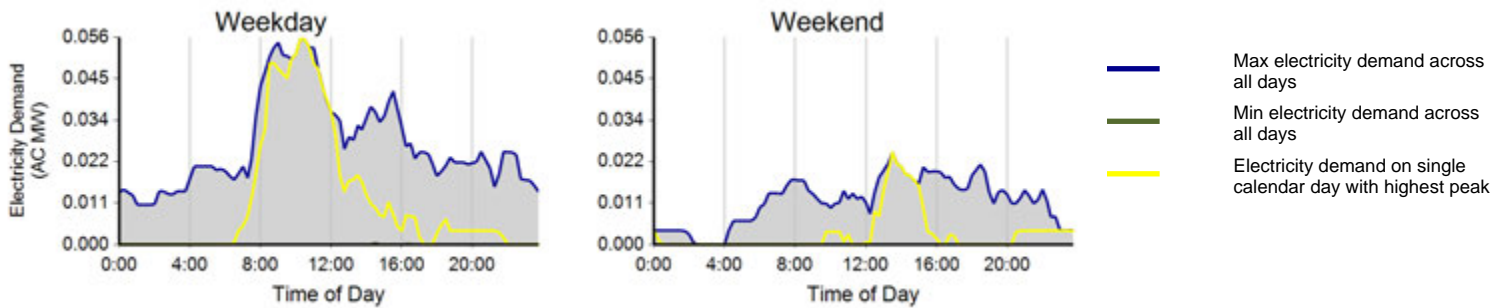
EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	1,927	331	2,258
Electricity consumed (AC MWh)	12.41	1.74	14.15
Percent of time with a vehicle connected to EVSE	8%	5%	7%
Percent of time with a vehicle drawing power from EVSE	2%	1%	2%
Average number of charging events started per EVSE per day	0.29	0.13	0.25

Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: ALL

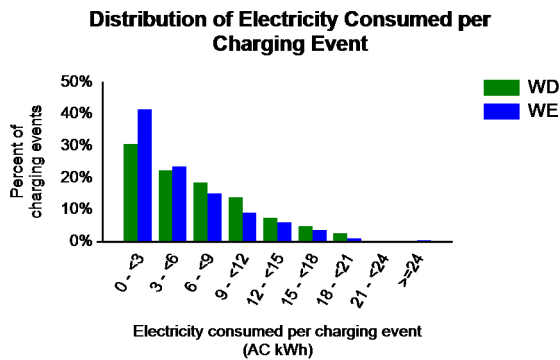
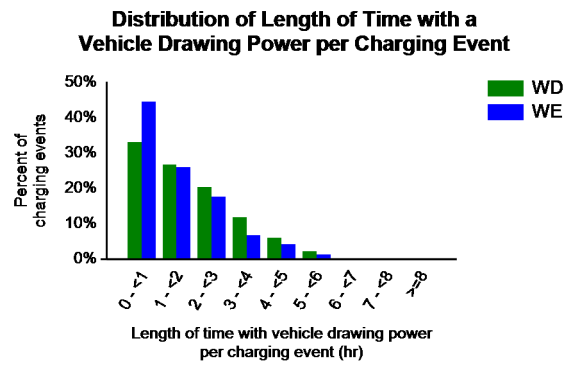
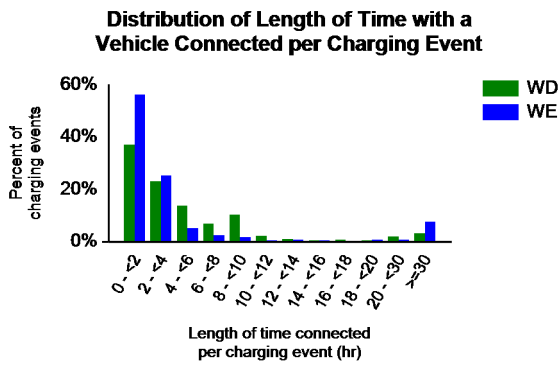
Report period: July 2011 through September 2011

Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	39%	3%	57%
Percent of electricity consumed	38%	2%	59%

Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	6.6	8.1	6.8
Average length of time with vehicle drawing power per charging event (hr)	1.8	1.4	1.7
Average electricity consumed per charging event (AC kWh)	6.4	5.3	6.3



EV Project Electric Vehicle Charging Infrastructure Summary Report



Region: Phoenix, AZ Metropolitan Area

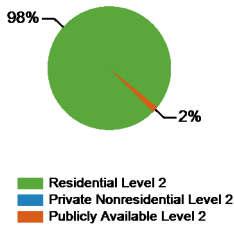
Report period: July 2011 through September 2011

Number of EV Project vehicles in region: 156

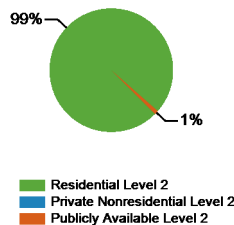
Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units ¹	159	0	21	0	180
Number of charging events ²	9,293	0	156	0	9,449
Electricity consumed (AC MWh)	58.52	0.00	0.60	0.00	59.11
Percent of time with a vehicle connected to charging unit	29%	0%	6%	0%	27%
Percent of time with a vehicle drawing power from charging unit	6%	0%	1%	0%	5%

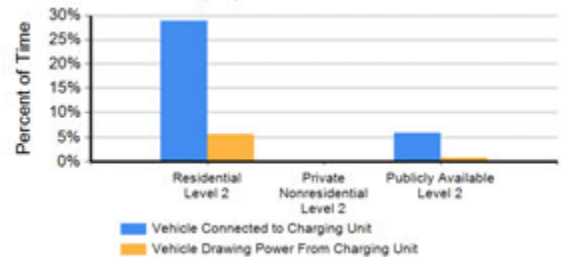
Number of Charge Events



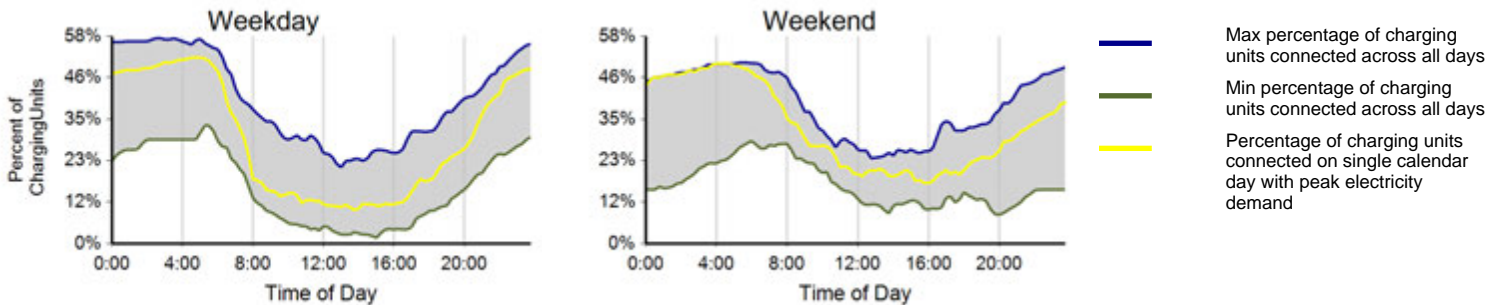
Electricity Consumed



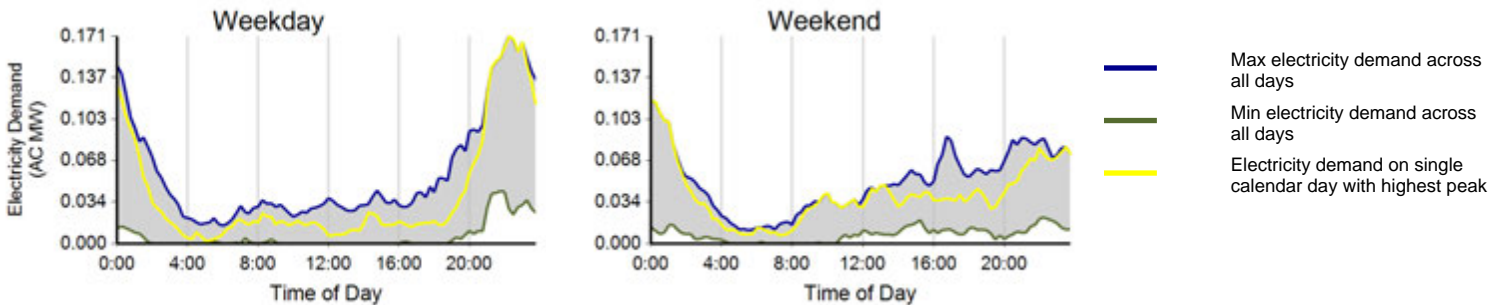
Charging Unit Utilization



Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



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

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

³ Considers the connection status of all charging units every minute

⁴ Based on 15 minute rolling average power output from all charging units

Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

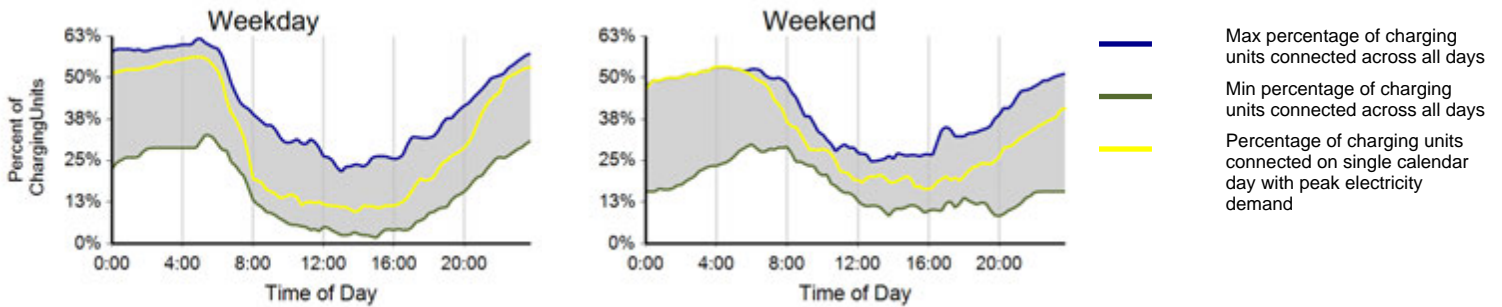
Region: Phoenix, AZ Metropolitan Area

Report period: July 2011 through September 2011

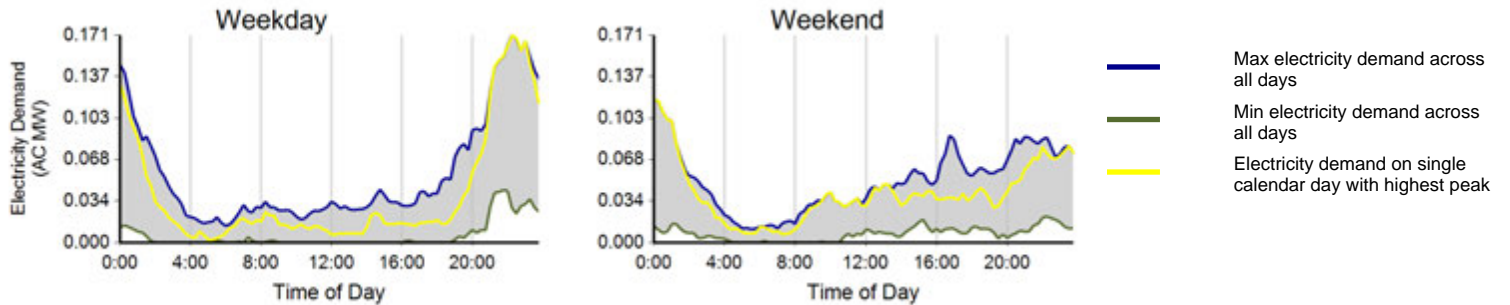
EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	6,572	2,721	9,293
Electricity consumed (AC MWh)	42.26	16.26	58.52
Percent of time with a vehicle connected to EVSE	28%	30%	29%
Percent of time with a vehicle drawing power from EVSE	6%	6%	6%
Average number of charging events started per EVSE per day	0.78	0.83	0.79

Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Phoenix, AZ Metropolitan Area

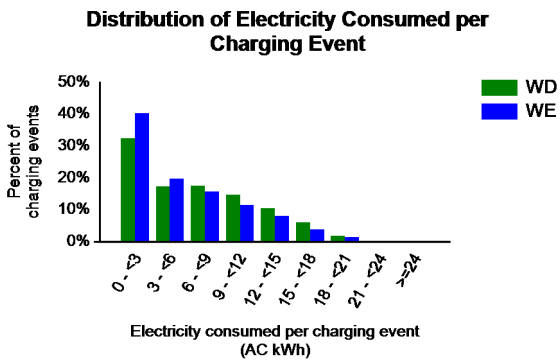
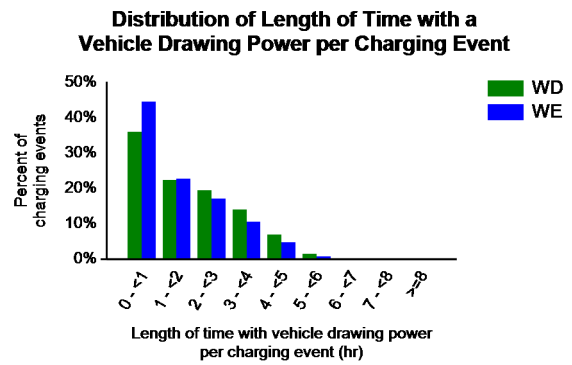
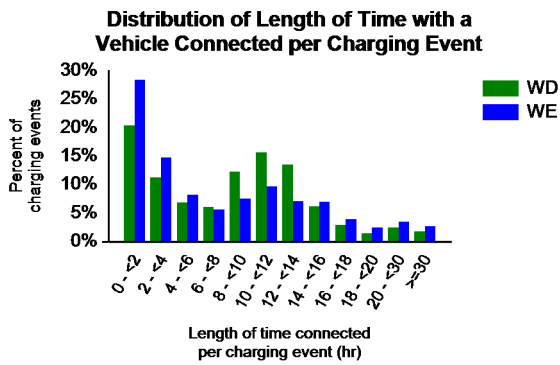
Report period: July 2011 through September 2011

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)	9.1	8.3	8.8
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)	6.6	5.5	6.3



Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

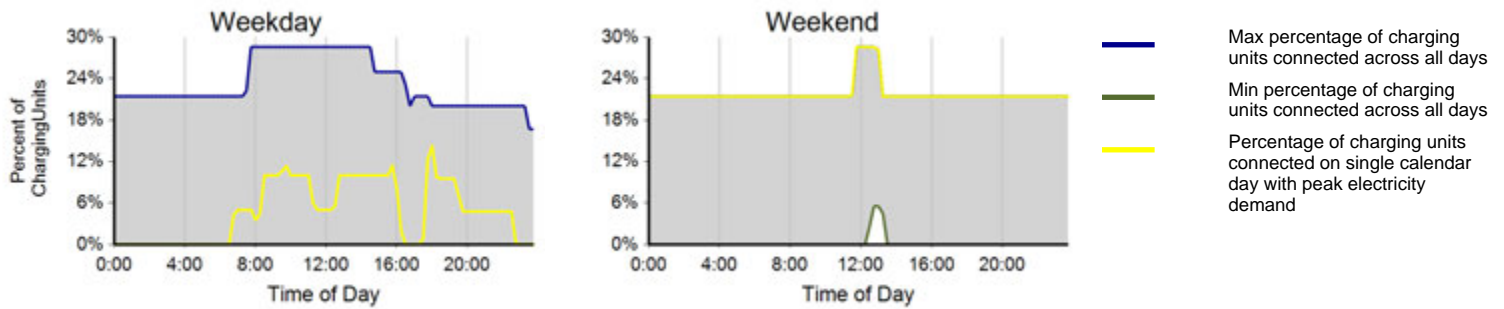
Region: Phoenix, AZ Metropolitan Area

Report period: July 2011 through September 2011

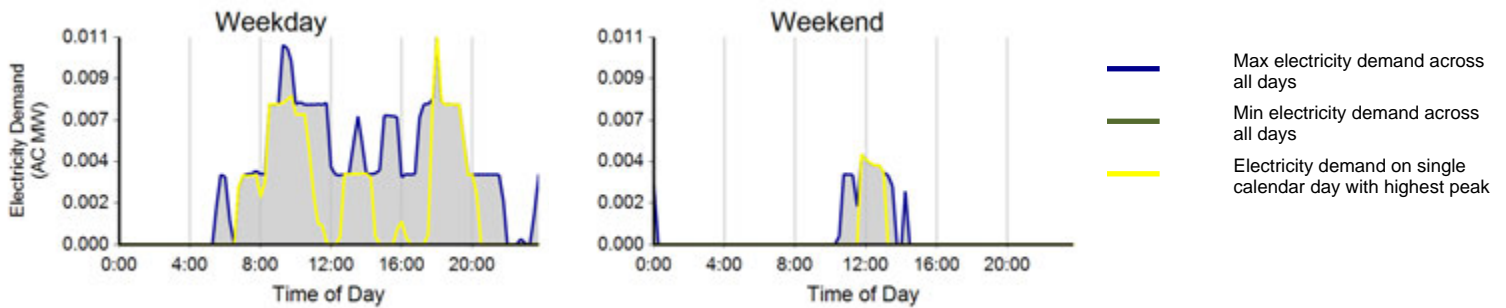
EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	125	31	156
Electricity consumed (AC MWh)	0.48	0.11	0.60
Percent of time with a vehicle connected to EVSE	5%	7%	6%
Percent of time with a vehicle drawing power from EVSE	1%	1%	1%
Average number of charging events started per EVSE per day	0.23	0.15	0.21

Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Phoenix, AZ Metropolitan Area

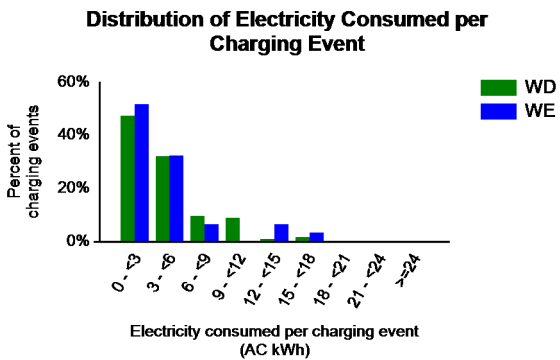
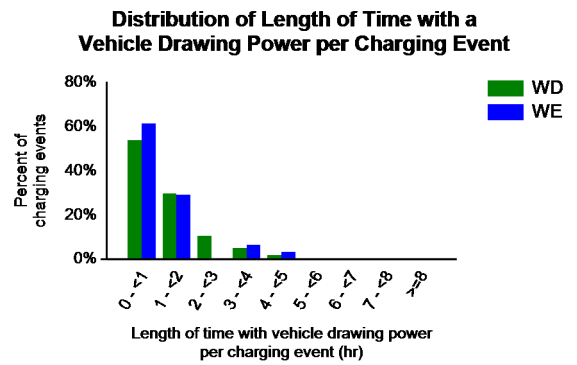
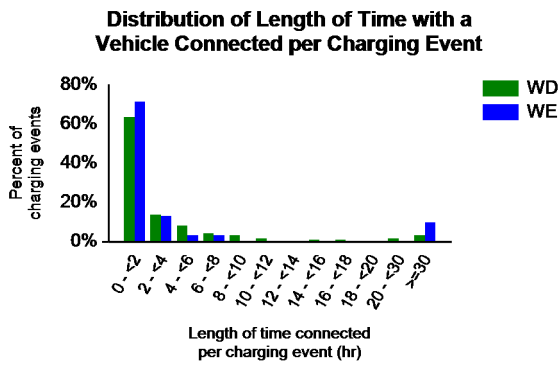
Report period: July 2011 through September 2011

Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	44%	0%	56%
Percent of electricity consumed	41%	0%	59%

Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	5.9	11.6	7.0
Average length of time with vehicle drawing power per charging event (hr)	1.1	1.0	1.1
Average electricity consumed per charging event (AC kWh)	3.9	3.7	3.8



EV Project Electric Vehicle Charging Infrastructure Summary Report



Region: Tucson, AZ Metropolitan Area

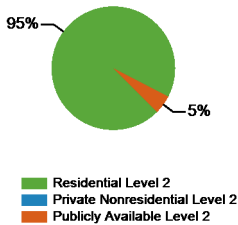
Report period: July 2011 through September 2011

Number of EV Project vehicles in region: 50

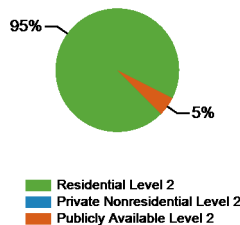
Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units ¹	53	0	7	0	60
Number of charging events ²	2,905	0	150	0	3,055
Electricity consumed (AC MWh)	17.00	0.00	0.90	0.00	17.90
Percent of time with a vehicle connected to charging unit	31%	0%	17%	0%	29%
Percent of time with a vehicle drawing power from charging unit	5%	0%	2%	0%	5%

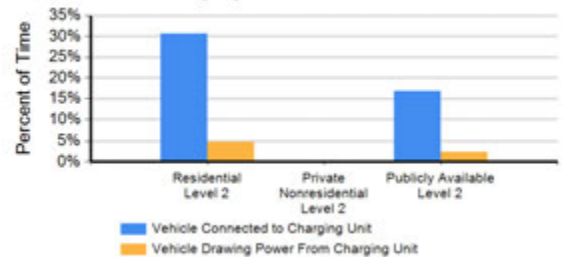
Number of Charge Events



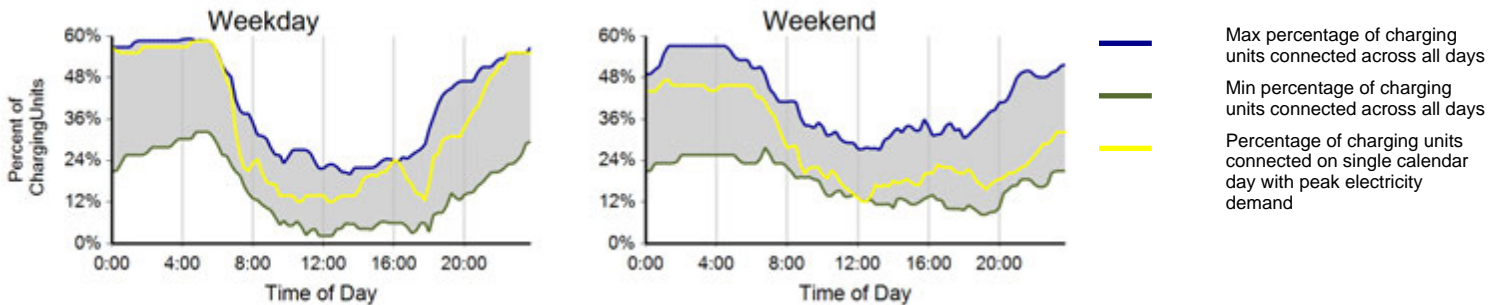
Electricity Consumed



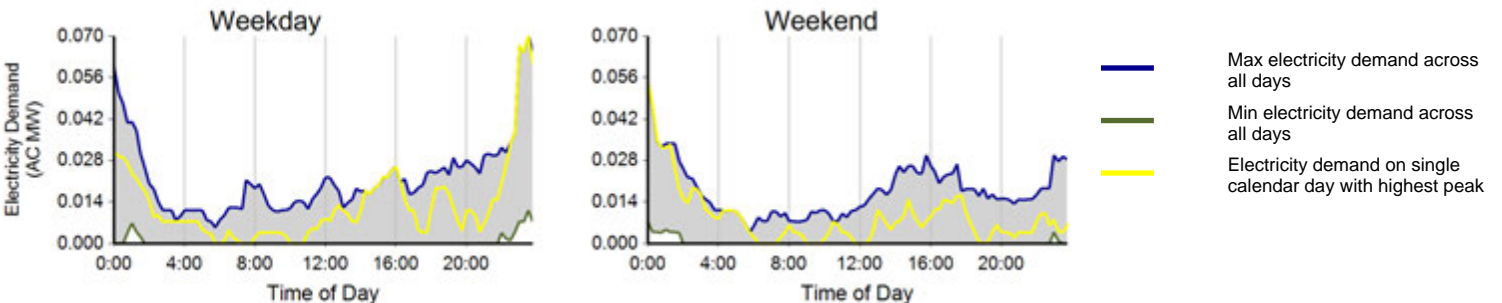
Charging Unit Utilization



Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



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

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

³ Considers the connection status of all charging units every minute

⁴ 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: July 2011 through September 2011

EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	2,151	754	2,905
Electricity consumed (AC MWh)	12.66	4.34	17.00
Percent of time with a vehicle connected to EVSE	30%	31%	31%
Percent of time with a vehicle drawing power from EVSE	5%	4%	5%
Average number of charging events started per EVSE per day	0.76	0.69	0.74

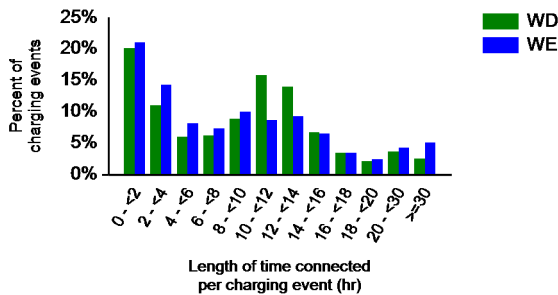
Vehicles Charged

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

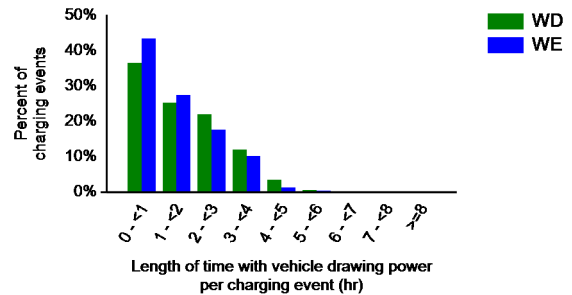
Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	9.6	11.3	10.0
Average length of time with vehicle drawing power per charging event (hr)	1.6	1.4	1.6
Average electricity consumed per charging event (AC kWh)	6.1	5.2	5.9

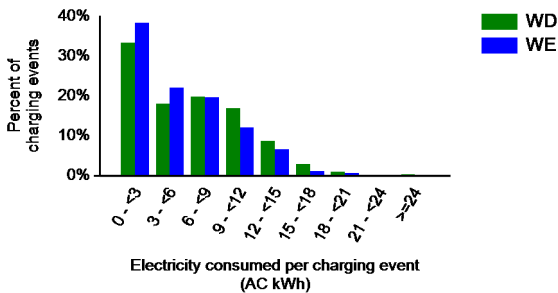
Distribution of Length of Time with a Vehicle Connected per Charging Event



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

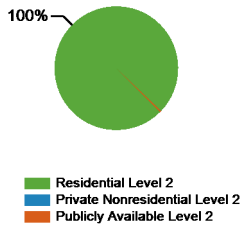


Region: Los Angeles, CA Metropolitan Area
Report period: July 2011 through September 2011
Number of EV Project vehicles in region: 217

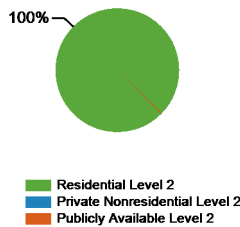
Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units ¹	216	0	4	0	220
Number of charging events ²	9,219	0	33	0	9,252
Electricity consumed (AC MWh)	67.06	0.00	0.16	0.00	67.22
Percent of time with a vehicle connected to charging unit	26%	0%	5%	0%	26%
Percent of time with a vehicle drawing power from charging unit	5%	0%	2%	0%	5%

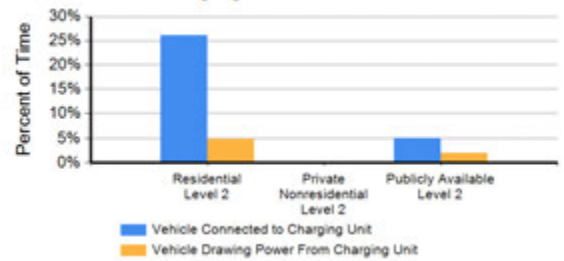
Number of Charge Events



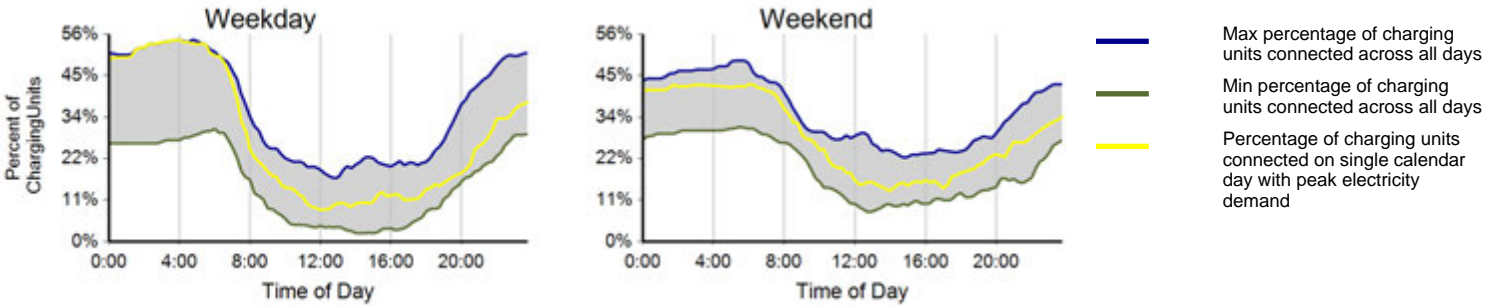
Electricity Consumed



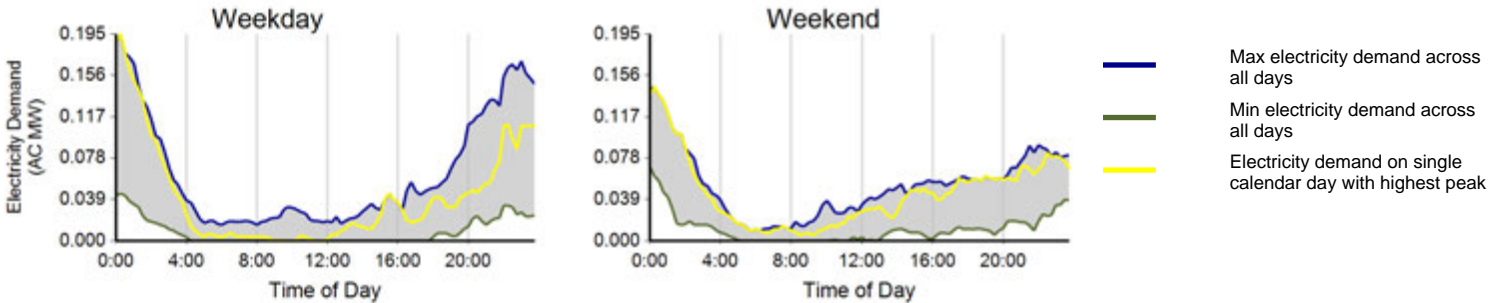
Charging Unit Utilization



Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



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

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

³ Considers the connection status of all charging units every minute

⁴ 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: July 2011 through September 2011

EVSE Usage

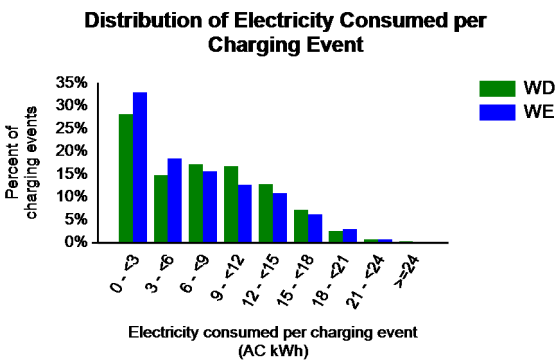
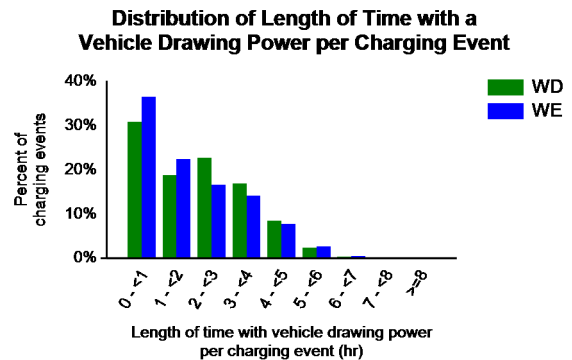
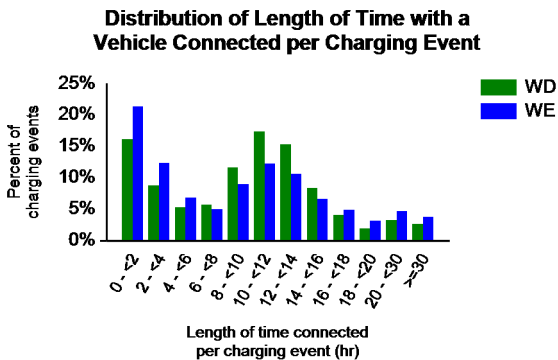
	Weekday	Weekend	Overall
Number of charging events	6,711	2,508	9,219
Electricity consumed (AC MWh)	49.10	17.96	67.06
Percent of time with a vehicle connected to EVSE	26%	28%	26%
Percent of time with a vehicle drawing power from EVSE	5%	5%	5%
Average number of charging events started per EVSE per day	0.61	0.58	0.60

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)	10.6	10.3	10.5
Average length of time with vehicle drawing power per charging event (hr)	2.0	1.8	2.0
Average electricity consumed per charging event (AC kWh)	7.5	6.7	7.3



EV Project Electric Vehicle Charging Infrastructure Summary Report



Region: San Diego, CA Metropolitan Area

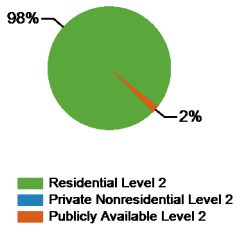
Report period: July 2011 through September 2011

Number of EV Project vehicles in region: 442

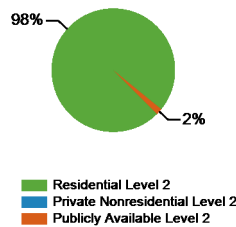
Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units ¹	441	0	20	0	461
Number of charging events ²	26,178	0	502	0	26,680
Electricity consumed (AC MWh)	199.47	0.00	3.30	0.00	202.77
Percent of time with a vehicle connected to charging unit	31%	0%	8%	0%	31%
Percent of time with a vehicle drawing power from charging unit	6%	0%	3%	0%	6%

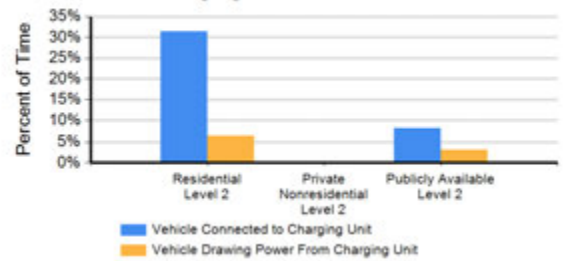
Number of Charge Events



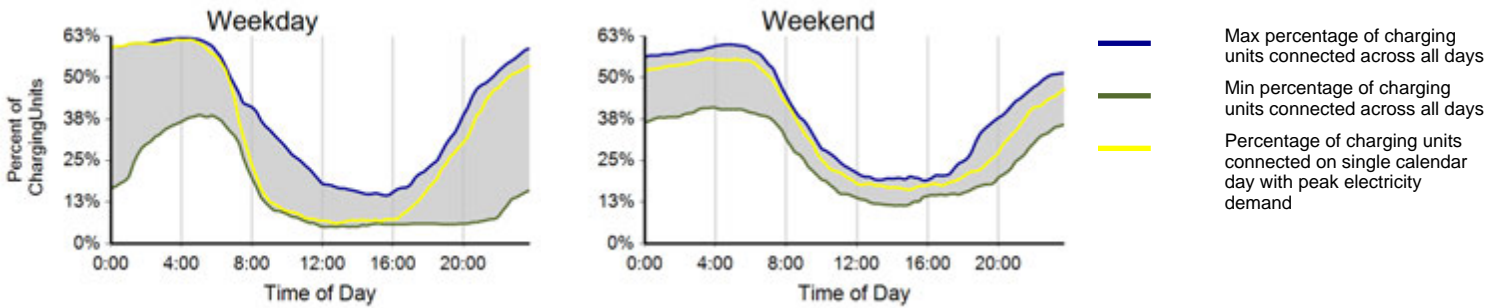
Electricity Consumed



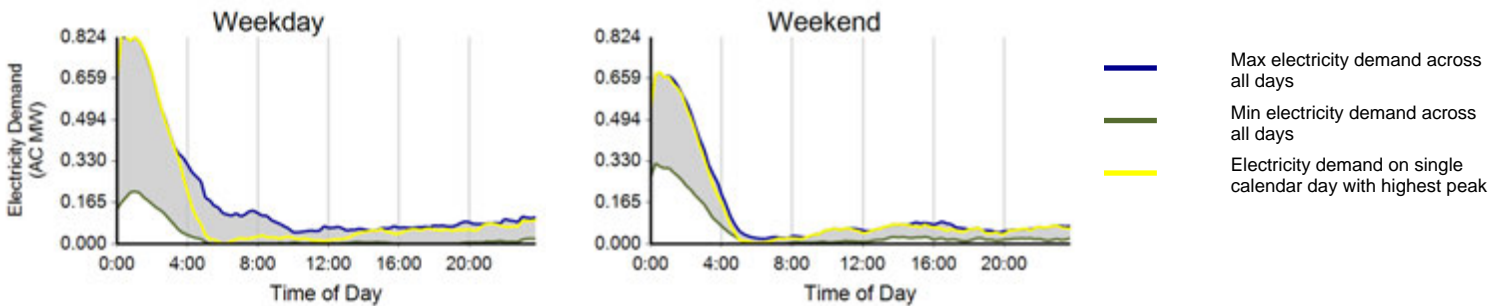
Charging Unit Utilization



Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



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

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

³ Considers the connection status of all charging units every minute

⁴ Based on 15 minute rolling average power output from all charging units

Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

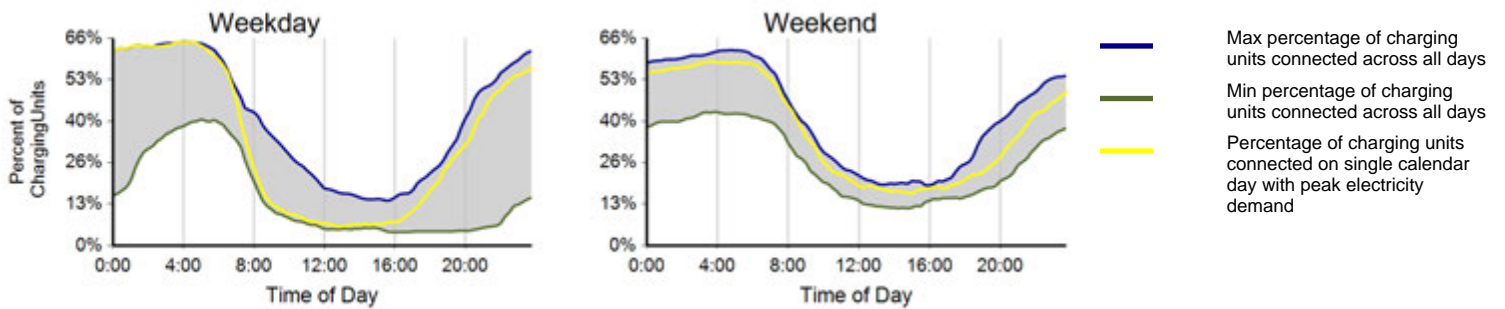
Region: San Diego, CA Metropolitan Area

Report period: July 2011 through September 2011

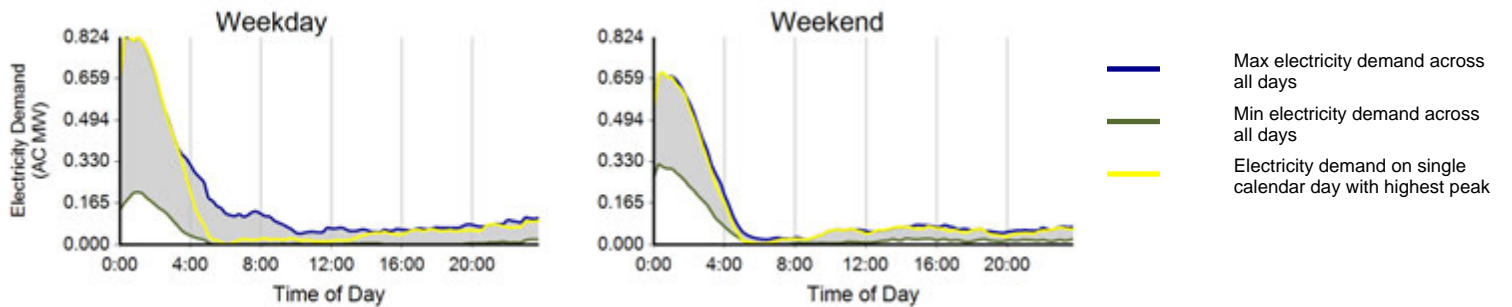
EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	19,253	6,925	26,178
Percent of time with a vehicle connected to EVSE	31%	33%	31%
Average number of charging events started per EVSE per day	0.77	0.71	0.75

Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: San Diego, CA Metropolitan Area

Report period: July 2011 through September 2011

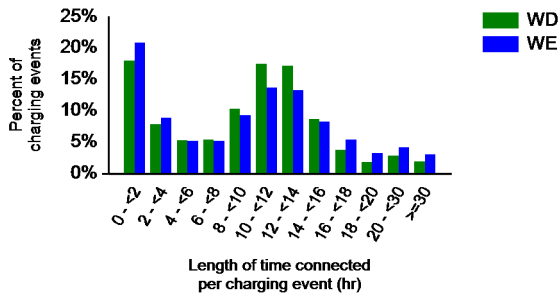
Vehicles Charged

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

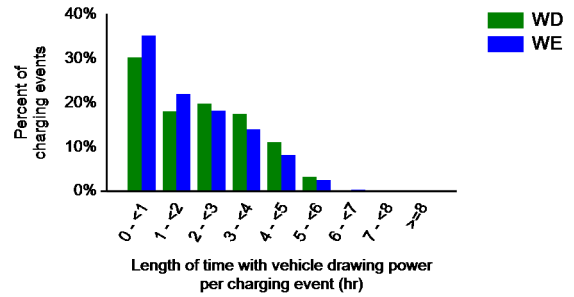
Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	10.1	10.3	10.1
Average length of time with vehicle drawing power per charging event (hr)	2.1	1.9	2.1
Average electricity consumed per charging event (AC kWh)	7.9	6.9	7.6

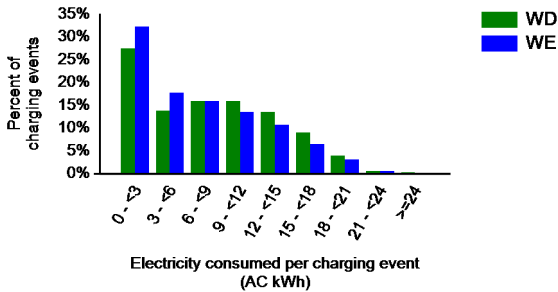
Distribution of Length of Time with a Vehicle Connected per Charging Event



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)

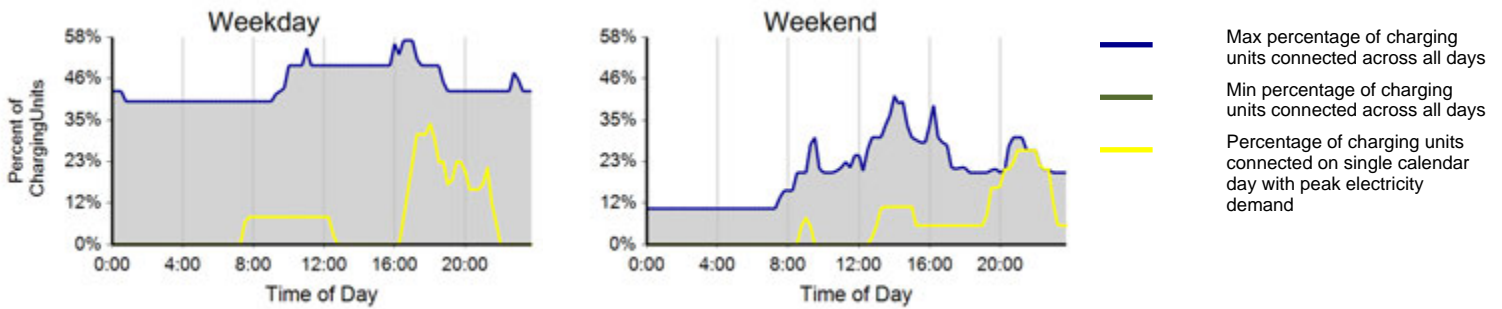
Region: San Diego, CA Metropolitan Area

Report period: July 2011 through September 2011

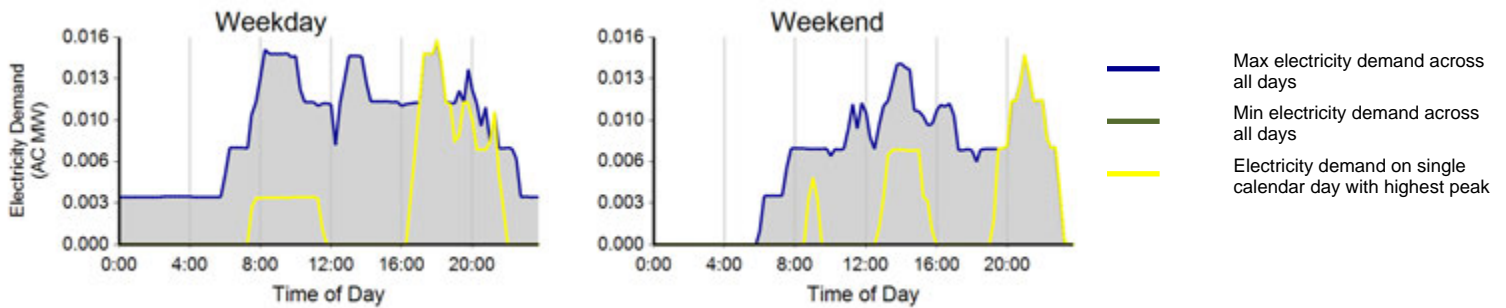
EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	357	145	502
Electricity consumed (AC MWh)	2.45	0.85	3.30
Percent of time with a vehicle connected to EVSE	9%	7%	8%
Percent of time with a vehicle drawing power from EVSE	3%	3%	3%
Average number of charging events started per EVSE per day	0.42	0.44	0.42

Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: San Diego, CA Metropolitan Area

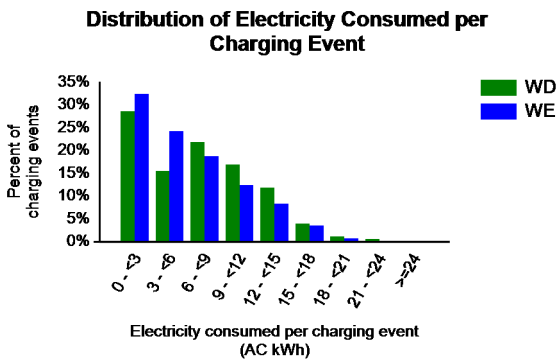
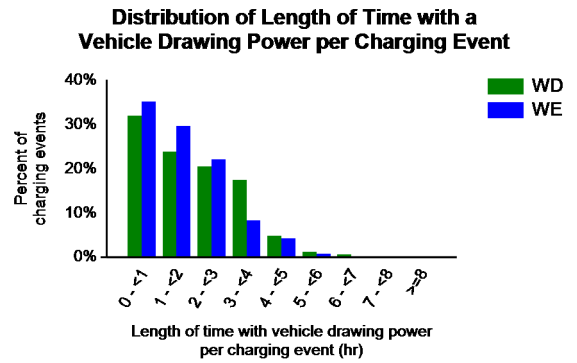
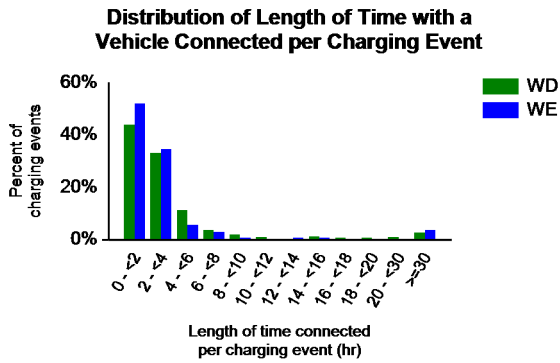
Report period: July 2011 through September 2011

Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	61%	0%	39%
Percent of electricity consumed	62%	0%	38%

Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	4.8	4.7	4.7
Average length of time with vehicle drawing power per charging event (hr)	1.9	1.6	1.8
Average electricity consumed per charging event (AC kWh)	6.9	5.8	6.6



EV Project Electric Vehicle Charging Infrastructure Summary Report



Region: San Francisco, CA Metropolitan Area

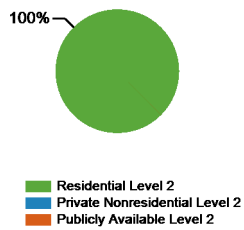
Report period: July 2011 through September 2011

Number of EV Project vehicles in region: 597

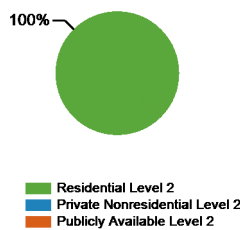
Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units ¹	602	0	2	0	604
Number of charging events ²	24,089	0	5	0	24,094
Electricity consumed (AC MWh)	187.63	0.00	0.01	0.00	187.65
Percent of time with a vehicle connected to charging unit	28%	0%	0%	0%	28%
Percent of time with a vehicle drawing power from charging unit	6%	0%	0%	0%	6%

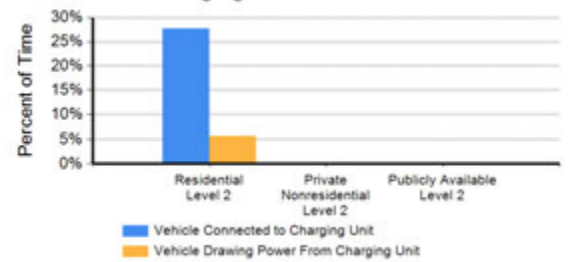
Number of Charge Events



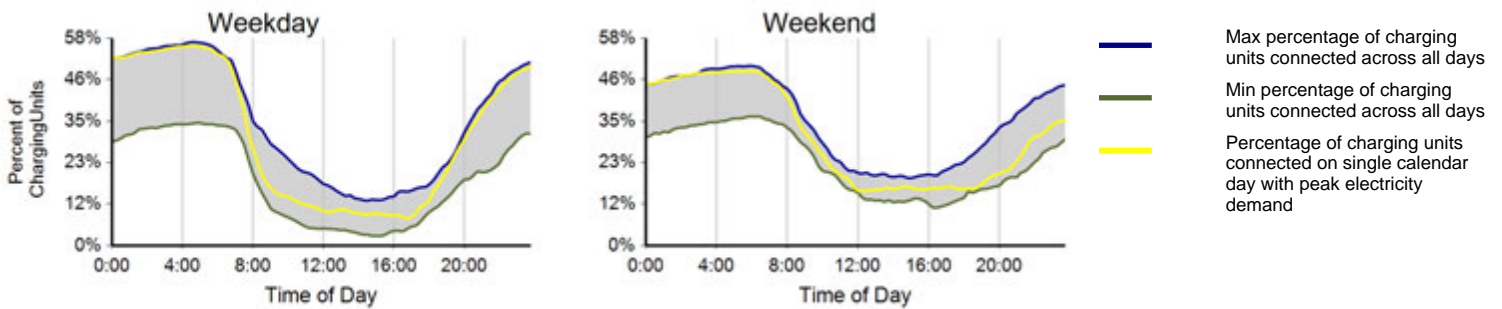
Electricity Consumed



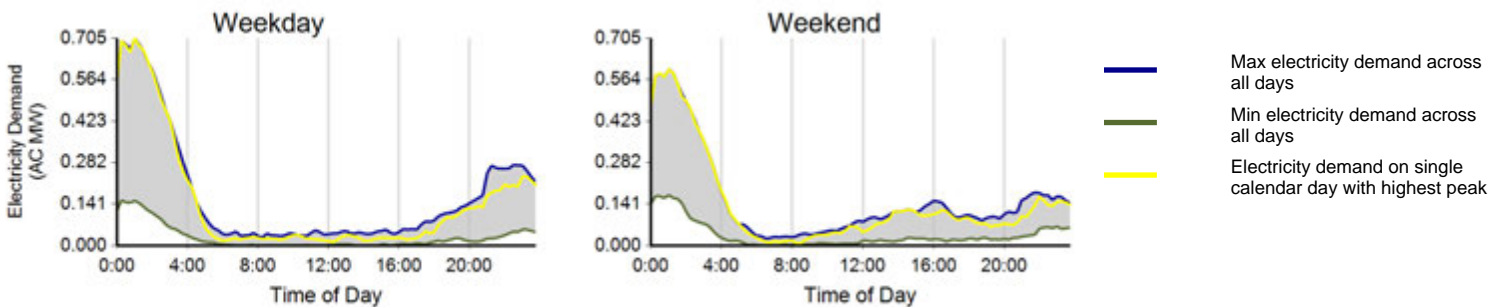
Charging Unit Utilization



Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



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

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

³ Considers the connection status of all charging units every minute

⁴ 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: July 2011 through September 2011

EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	17,584	6,505	24,089
Electricity consumed (AC MWh)	137.07	50.56	187.63
Percent of time with a vehicle connected to EVSE	27%	29%	28%
Percent of time with a vehicle drawing power from EVSE	6%	5%	6%
Average number of charging events started per EVSE per day	0.66	0.63	0.65

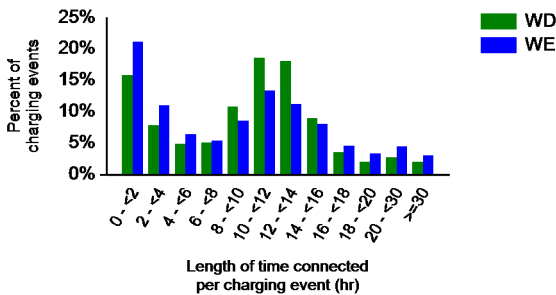
Vehicles Charged

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

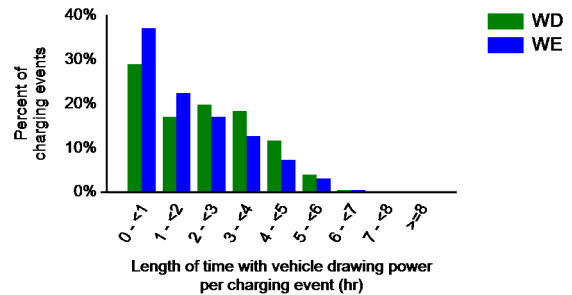
Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	10.4	10.2	10.4
Average length of time with vehicle drawing power per charging event (hr)	2.2	1.8	2.1
Average electricity consumed per charging event (AC kWh)	8.2	6.7	7.8

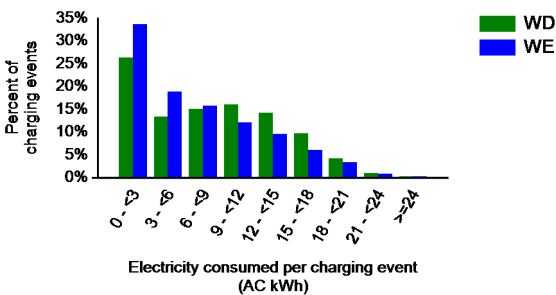
Distribution of Length of Time with a Vehicle Connected per Charging Event



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



Distribution of Electricity Consumed per Charging Event



EV Project Electric Vehicle Charging Infrastructure Summary Report



Region: Oregon

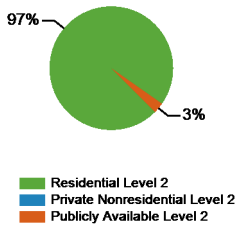
Report period: July 2011 through September 2011

Number of EV Project vehicles in region: 254

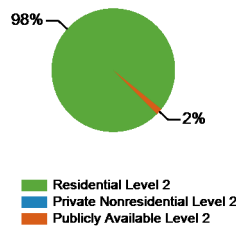
Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units ¹	254	0	32	0	286
Number of charging events ²	12,773	0	364	0	13,137
Electricity consumed (AC MWh)	87.90	0.00	1.46	0.00	89.36
Percent of time with a vehicle connected to charging unit	27%	0%	7%	0%	26%
Percent of time with a vehicle drawing power from charging unit	5%	0%	1%	0%	5%

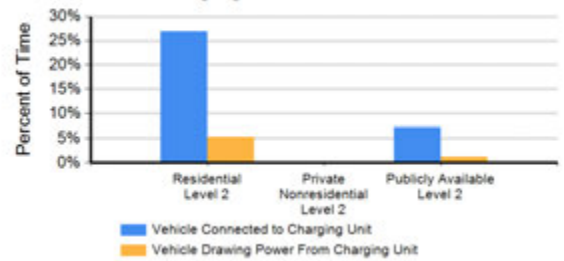
Number of Charge Events



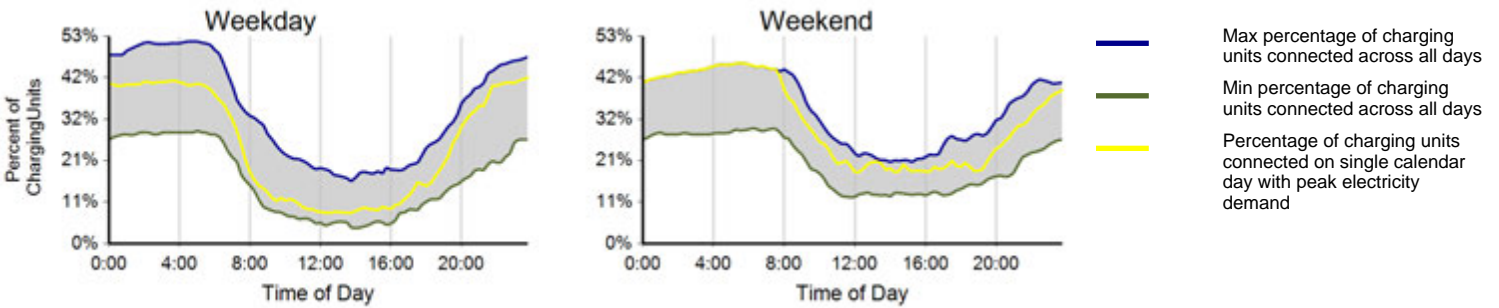
Electricity Consumed



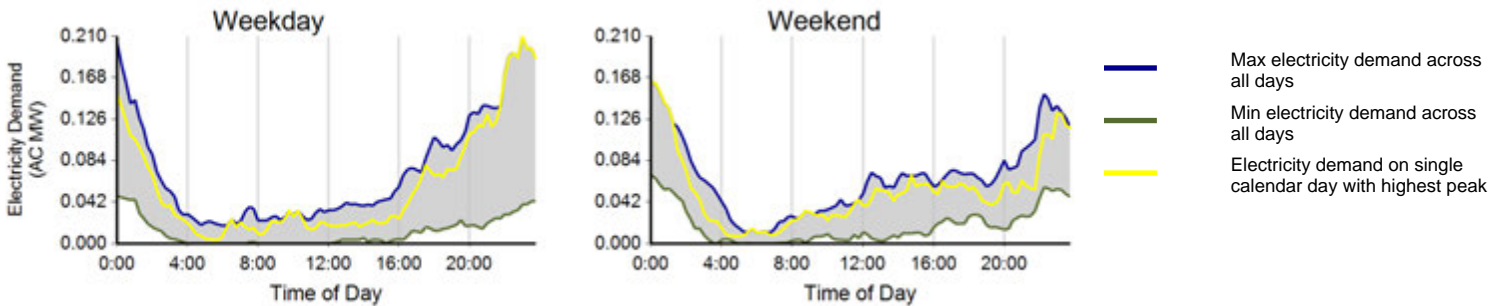
Charging Unit Utilization



Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



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

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

³ Considers the connection status of all charging units every minute

⁴ Based on 15 minute rolling average power output from all charging units

Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

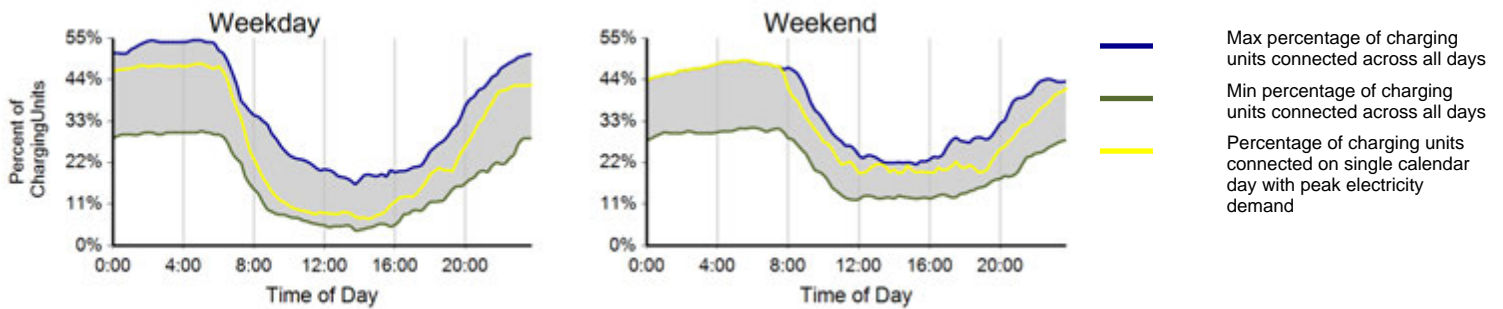
Region: Oregon

Report period: July 2011 through September 2011

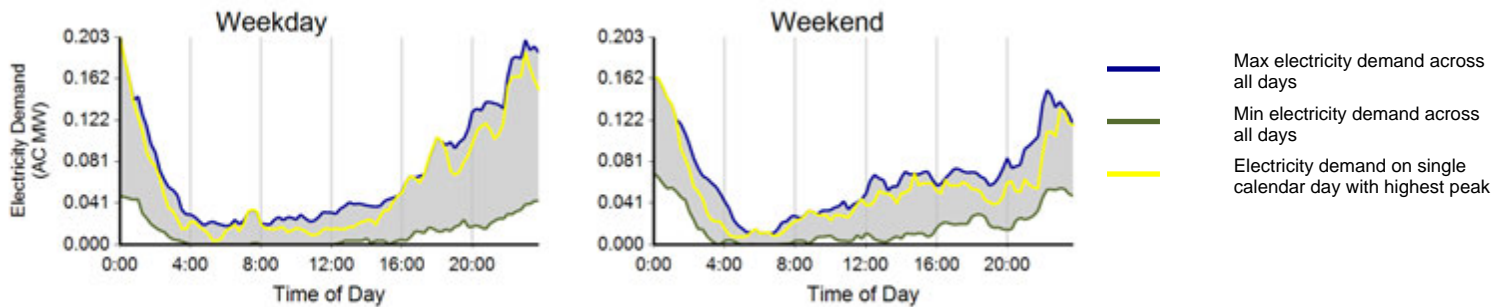
EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	9,336	3,437	12,773
Electricity consumed (AC MWh)	63.79	24.11	87.90
Percent of time with a vehicle connected to EVSE	26%	28%	27%
Percent of time with a vehicle drawing power from EVSE	5%	5%	5%
Average number of charging events started per EVSE per day	0.69	0.65	0.68

Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Oregon

Report period: July 2011 through September 2011

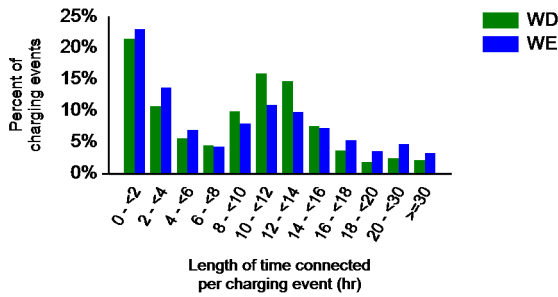
Vehicles Charged

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

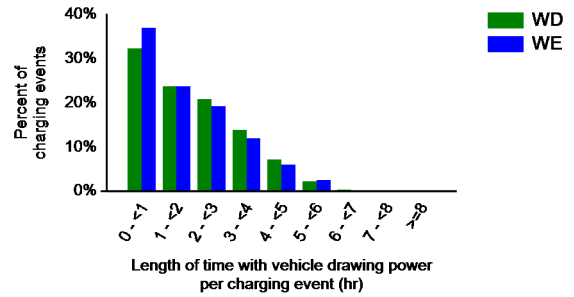
Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	9.6	9.8	9.7
Average length of time with vehicle drawing power per charging event (hr)	1.9	1.8	1.9
Average electricity consumed per charging event (AC kWh)	7.0	6.5	6.9

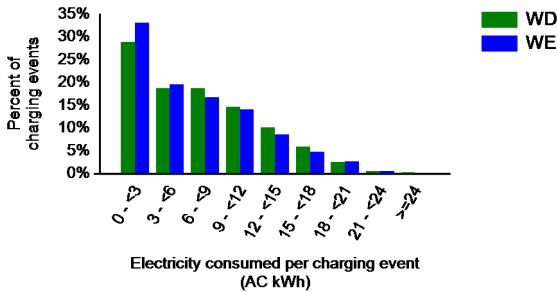
Distribution of Length of Time with a Vehicle Connected per Charging Event



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



Distribution of Electricity Consumed per Charging Event



Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

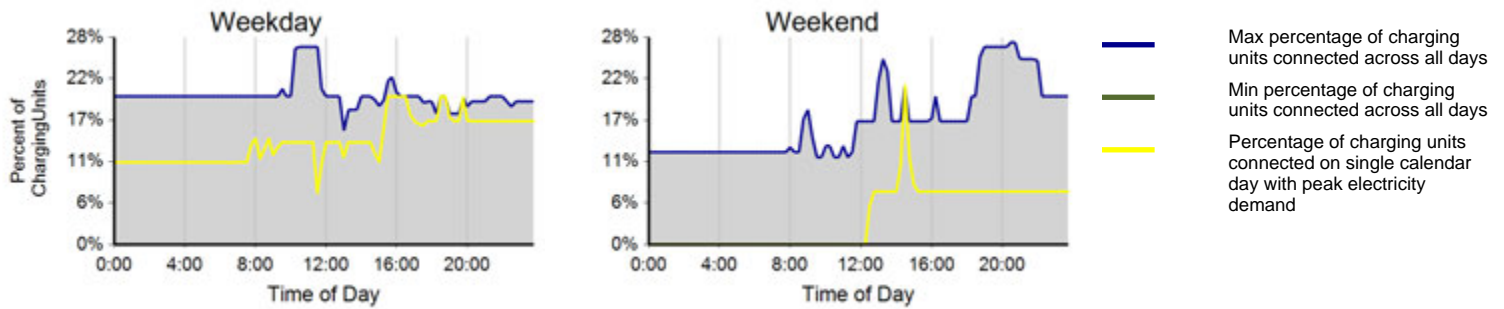
Region: Oregon

Report period: July 2011 through September 2011

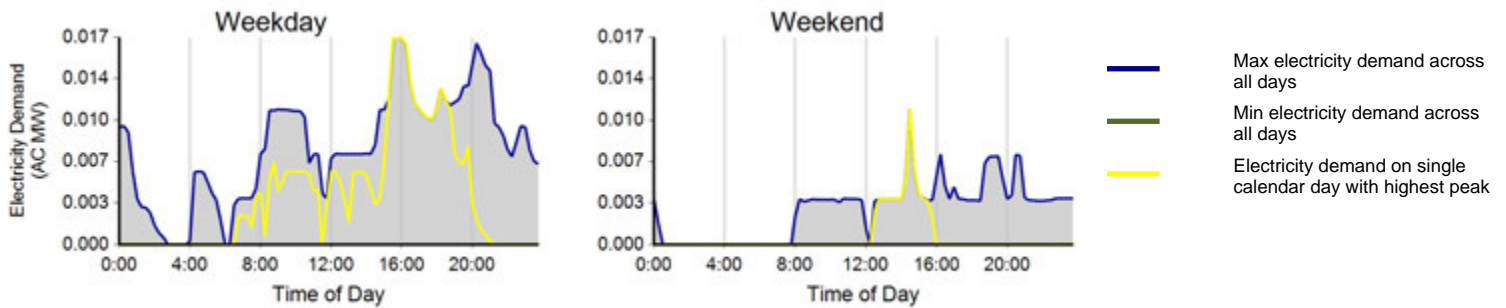
EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	304	60	364
Electricity consumed (AC MWh)	1.29	0.17	1.46
Percent of time with a vehicle connected to EVSE	7%	7%	7%
Percent of time with a vehicle drawing power from EVSE	2%	0%	1%
Average number of charging events started per EVSE per day	0.30	0.16	0.26

Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Oregon

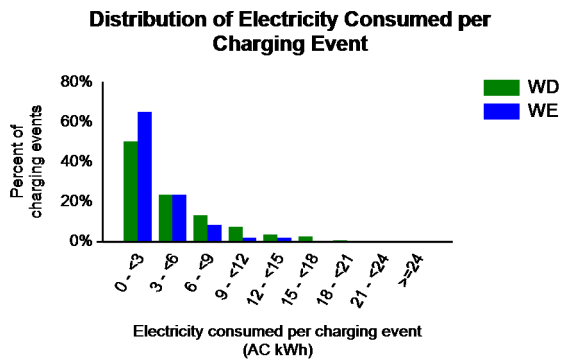
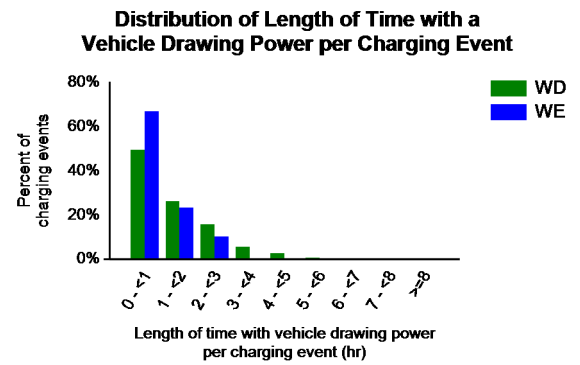
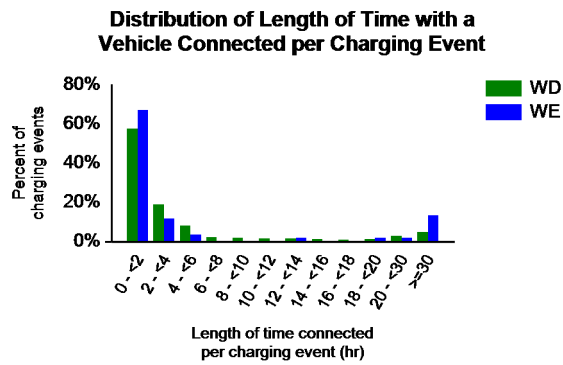
Report period: July 2011 through September 2011

Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	34%	0%	66%
Percent of electricity consumed	25%	0%	75%

Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	5.8	11.6	6.8
Average length of time with vehicle drawing power per charging event (hr)	1.3	0.8	1.2
Average electricity consumed per charging event (AC kWh)	4.3	2.8	4.0



EV Project Electric Vehicle Charging Infrastructure Summary Report

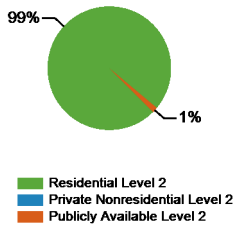


Region: Chattanooga, TN Metropolitan Area
Report period: July 2011 through September 2011
Number of EV Project vehicles in region: 24

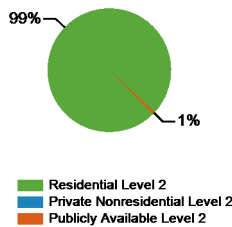
Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units ¹	25	0	4	0	29
Number of charging events ²	970	0	14	0	984
Electricity consumed (AC MWh)	7.79	0.00	0.05	0.00	7.84
Percent of time with a vehicle connected to charging unit	27%	0%	1%	0%	26%
Percent of time with a vehicle drawing power from charging unit	6%	0%	1%	0%	6%

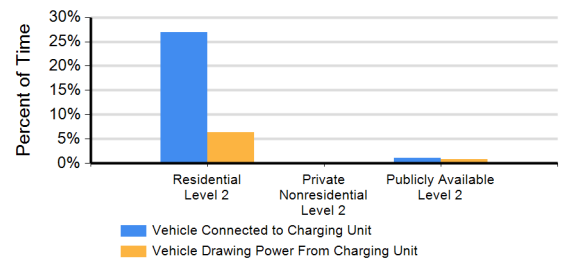
Number of Charge Events



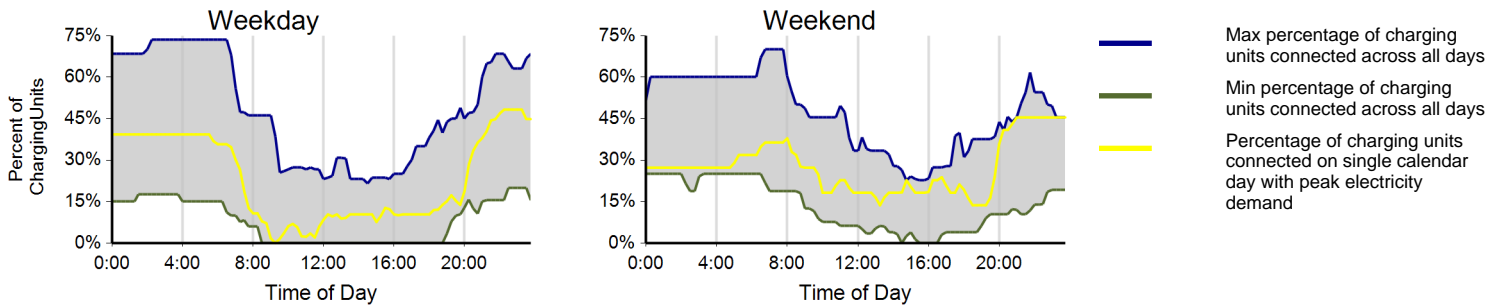
Electricity Consumed



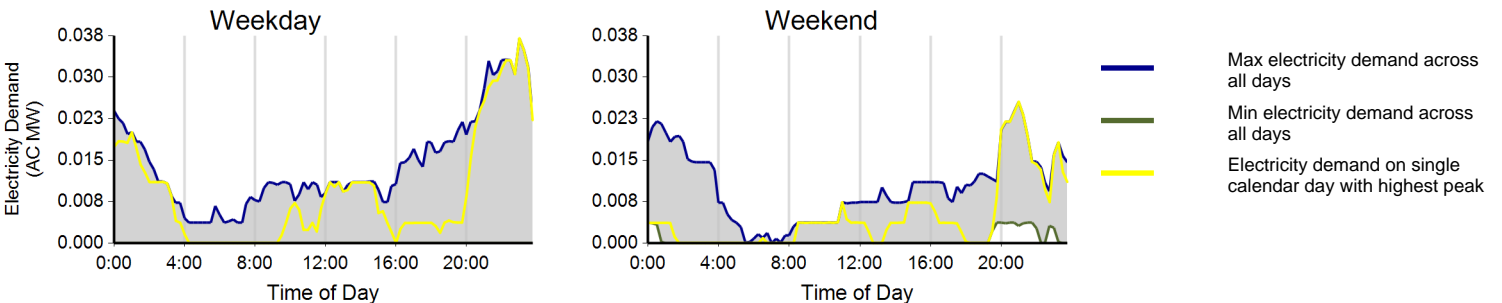
Charging Unit Utilization



Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



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

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

³ Considers the connection status of all charging units every minute

⁴ 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: July 2011 through September 2011

EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	719	251	970
Electricity consumed (AC MWh)	5.87	1.92	7.79
Percent of time with a vehicle connected to EVSE	26%	29%	27%
Percent of time with a vehicle drawing power from EVSE	7%	6%	6%
Average number of charging events started per EVSE per day	0.72	0.67	0.71

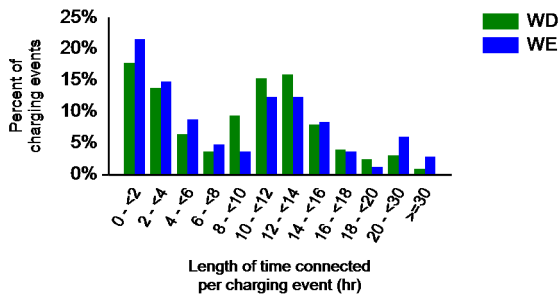
Vehicles Charged

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

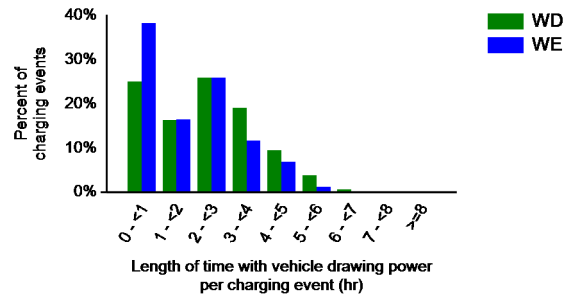
Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	9.1	9.7	9.3
Average length of time with vehicle drawing power per charging event (hr)	2.3	1.8	2.2
Average electricity consumed per charging event (AC kWh)	8.5	6.7	8.0

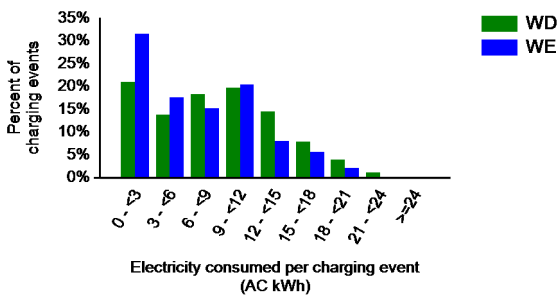
Distribution of Length of Time with a Vehicle Connected per Charging Event



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: Knoxville, TN Metropolitan Area

Report period: July 2011 through September 2011

Number of EV Project vehicles in region: 44

Charging Unit Usage

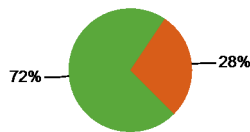
	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units ¹	44	0	24	0	68
Number of charging events ²	1,957	0	598	0	2,555
Electricity consumed (AC MWh)	13.60	0.00	5.32	0.00	18.92
Percent of time with a vehicle connected to charging unit	31%	0%	11%	0%	23%
Percent of time with a vehicle drawing power from charging unit	6%	0%	3%	0%	5%

Number of Charge Events



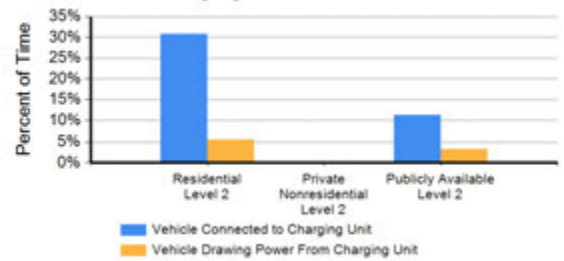
Residential Level 2
Private Nonresidential Level 2
Publicly Available Level 2

Electricity Consumed

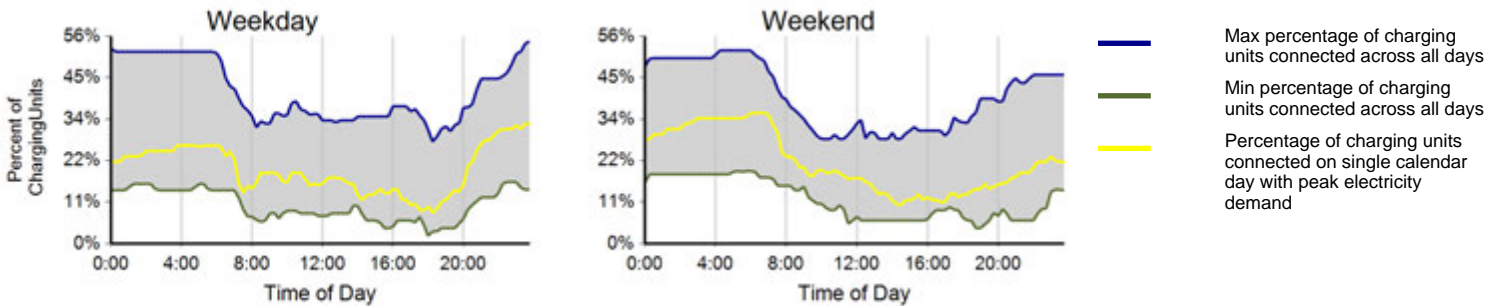


Residential Level 2
Private Nonresidential Level 2
Publicly Available Level 2

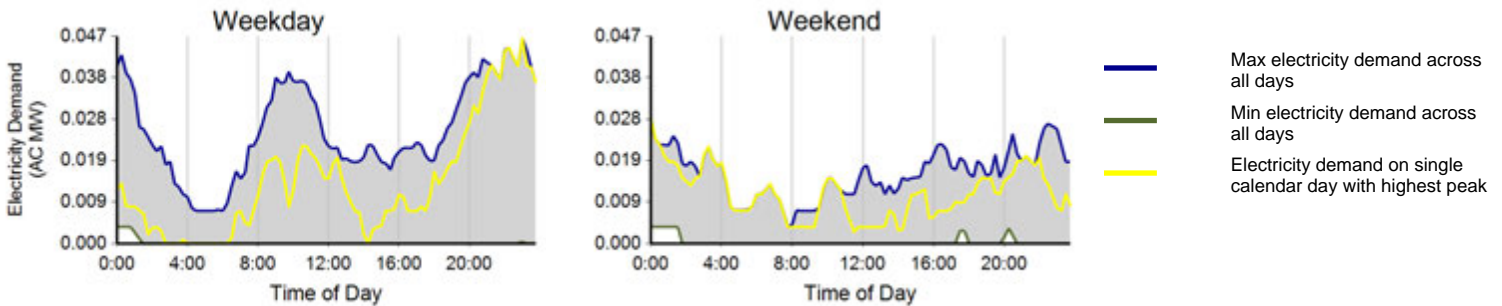
Charging Unit Utilization



Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



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

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

³ Considers the connection status of all charging units every minute

⁴ Based on 15 minute rolling average power output from all charging units

Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

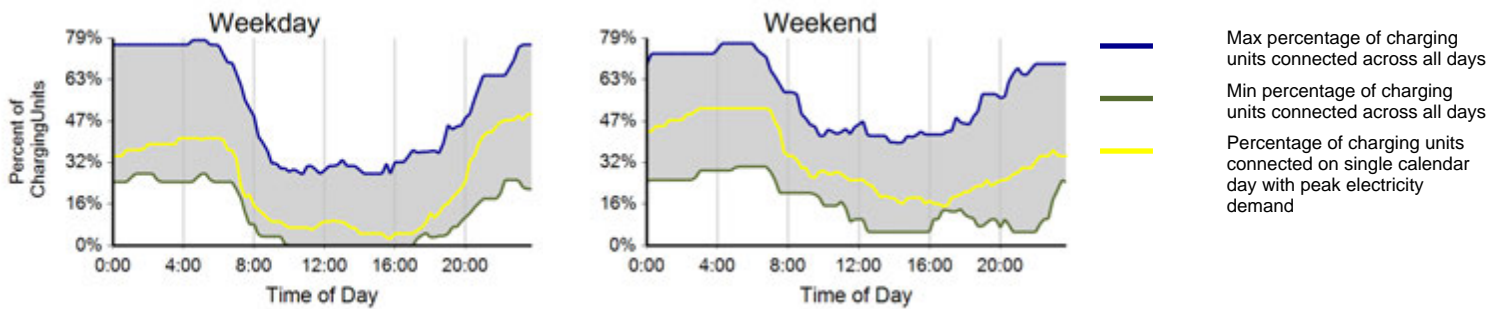
Region: Knoxville, TN Metropolitan Area

Report period: July 2011 through September 2011

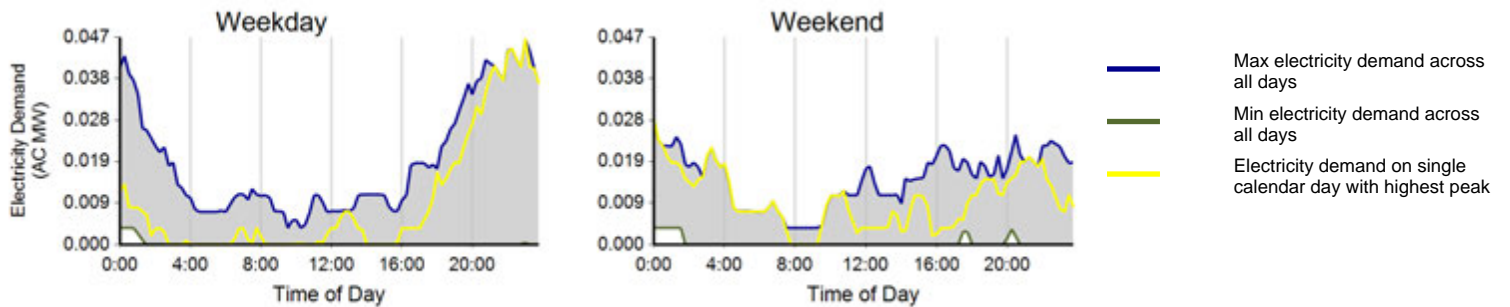
EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	1,426	531	1,957
Electricity consumed (AC MWh)	10.11	3.49	13.60
Percent of time with a vehicle connected to EVSE	29%	34%	31%
Percent of time with a vehicle drawing power from EVSE	6%	5%	6%
Average number of charging events started per EVSE per day	0.72	0.70	0.71

Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Knoxville, TN Metropolitan Area

Report period: July 2011 through September 2011

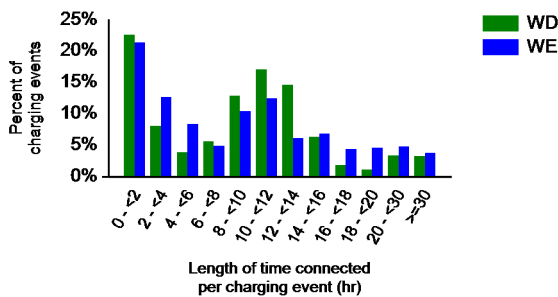
Vehicles Charged

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

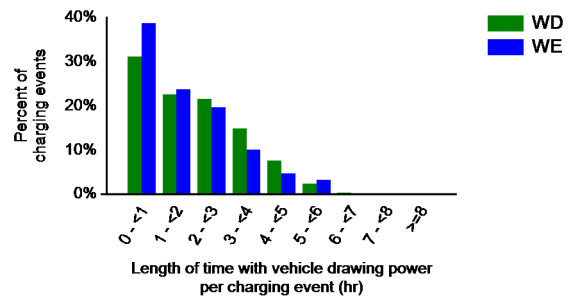
Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	10.7	9.8	10.5
Average length of time with vehicle drawing power per charging event (hr)	2.0	1.7	1.9
Average electricity consumed per charging event (AC kWh)	7.2	6.2	6.9

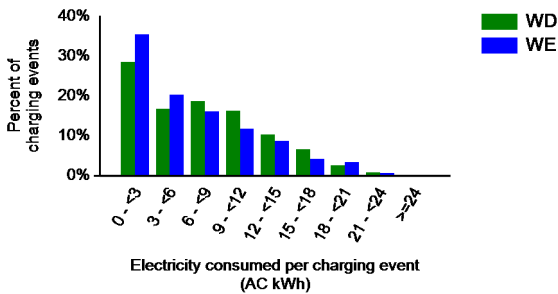
Distribution of Length of Time with a Vehicle Connected per Charging Event



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



Distribution of Electricity Consumed per Charging Event



Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

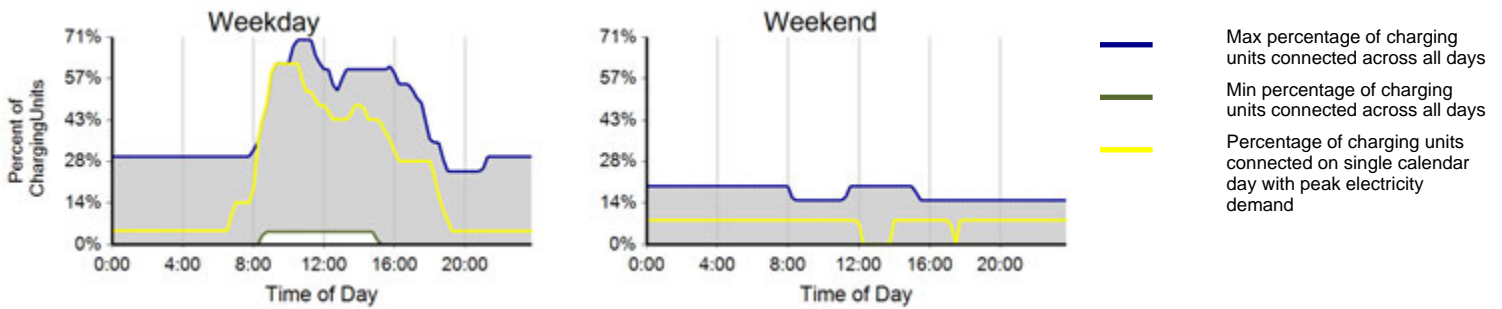
Region: Knoxville, TN Metropolitan Area

Report period: July 2011 through September 2011

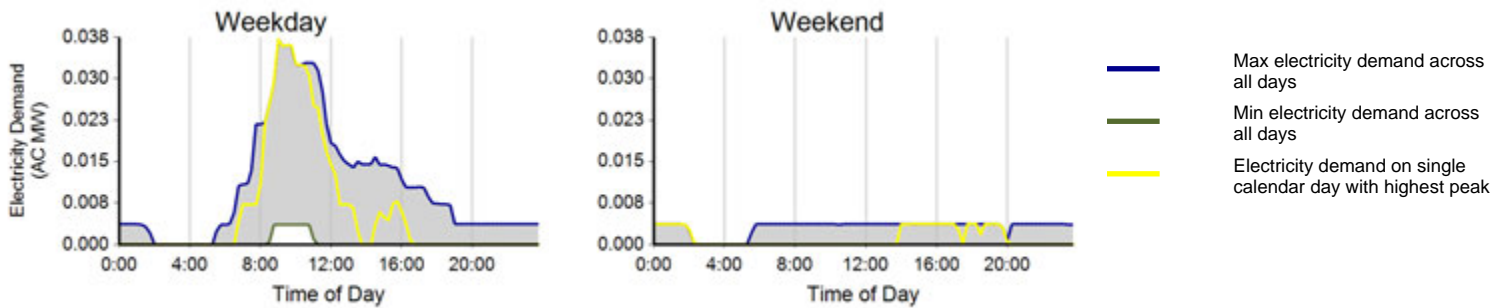
EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	575	23	598
Electricity consumed (AC MWh)	5.07	0.25	5.32
Percent of time with a vehicle connected to EVSE	14%	3%	11%
Percent of time with a vehicle drawing power from EVSE	4%	1%	3%
Average number of charging events started per EVSE per day	0.44	0.05	0.33

Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Knoxville, TN Metropolitan Area

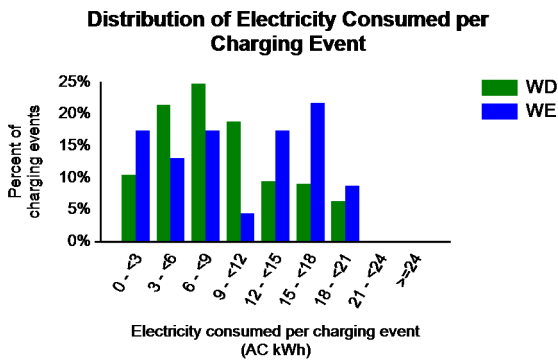
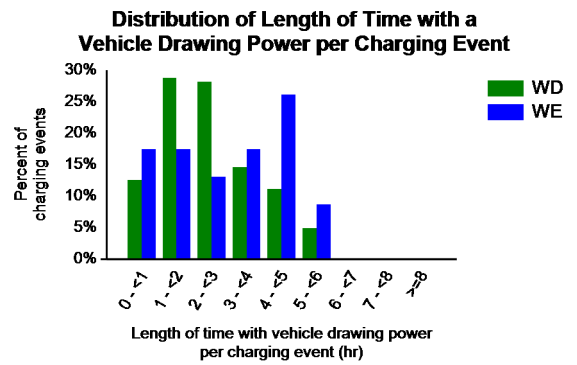
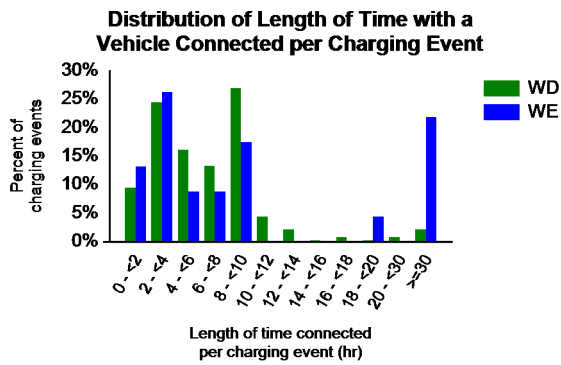
Report period: July 2011 through September 2011

Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	39%	0%	61%
Percent of electricity consumed	37%	0%	63%

Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	7.5	25.2	8.2
Average length of time with vehicle drawing power per charging event (hr)	2.4	2.8	2.4
Average electricity consumed per charging event (AC kWh)	8.8	10.4	8.9



EV Project Electric Vehicle Charging Infrastructure Summary Report



Region: Nashville, TN Metropolitan Area

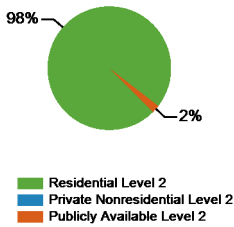
Report period: July 2011 through September 2011

Number of EV Project vehicles in region: 164

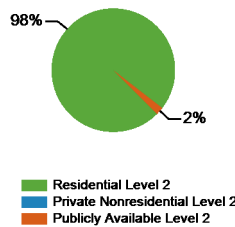
Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units ¹	166	0	16	0	182
Number of charging events ²	6,935	0	145	0	7,080
Electricity consumed (AC MWh)	46.62	0.00	0.96	0.00	47.58
Percent of time with a vehicle connected to charging unit	28%	0%	8%	0%	26%
Percent of time with a vehicle drawing power from charging unit	6%	0%	1%	0%	6%

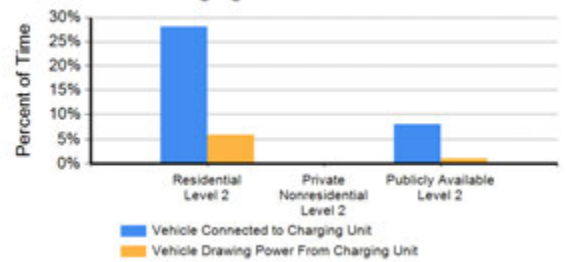
Number of Charge Events



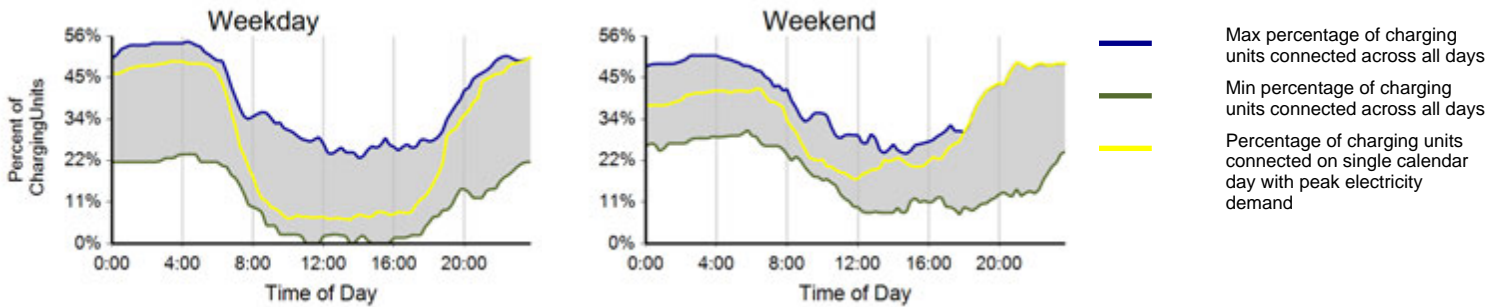
Electricity Consumed



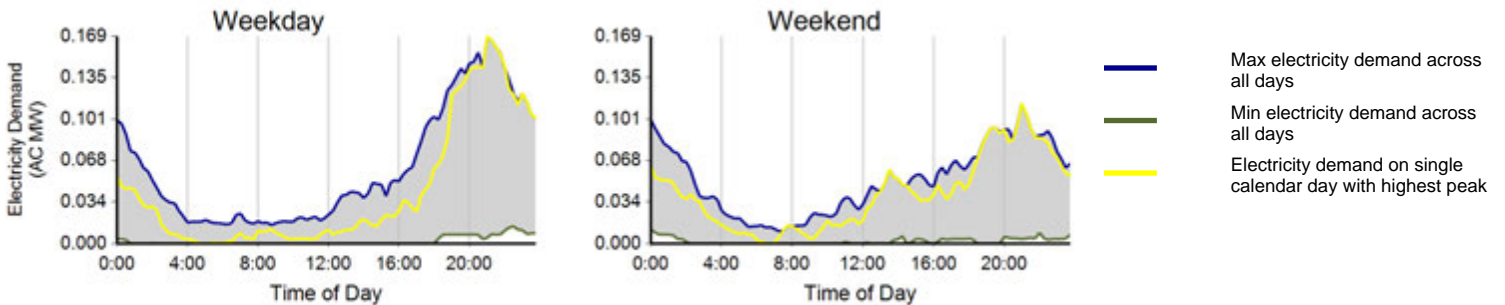
Charging Unit Utilization



Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



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

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

³ Considers the connection status of all charging units every minute

⁴ Based on 15 minute rolling average power output from all charging units

Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

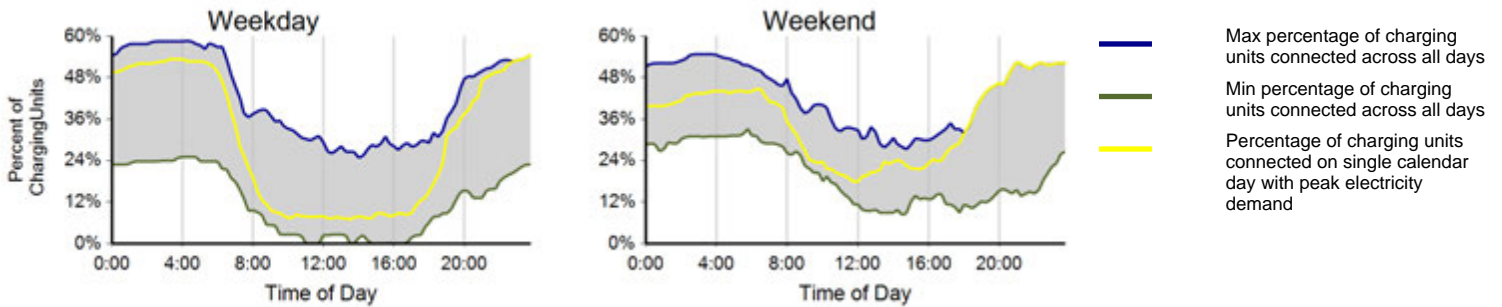
Region: Nashville, TN Metropolitan Area

Report period: July 2011 through September 2011

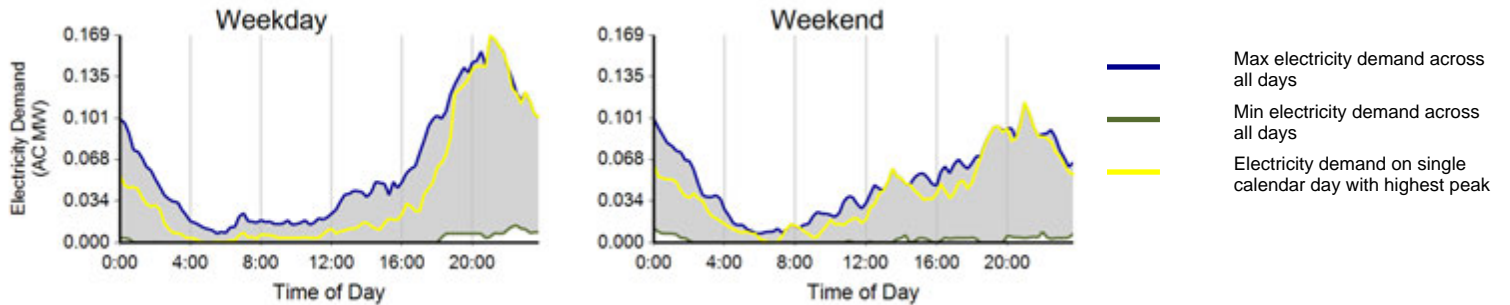
EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	5,006	1,929	6,935
Electricity consumed (AC MWh)	34.19	12.42	46.62
Percent of time with a vehicle connected to EVSE	27%	31%	28%
Percent of time with a vehicle drawing power from EVSE	6%	6%	6%
Average number of charging events started per EVSE per day	0.79	0.80	0.79

Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Nashville, TN Metropolitan Area

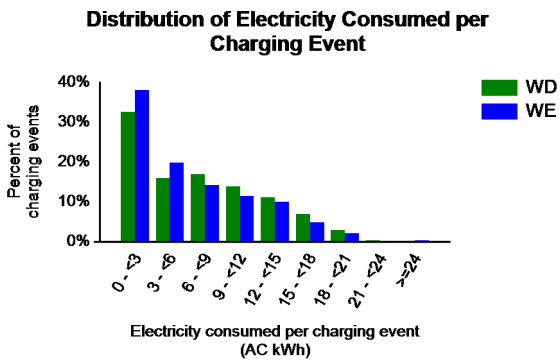
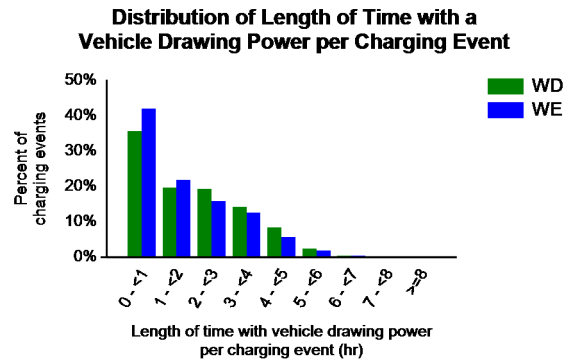
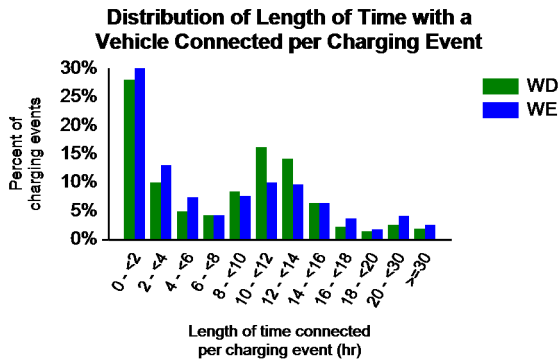
Report period: July 2011 through September 2011

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)	8.7	8.6	8.7
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



Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

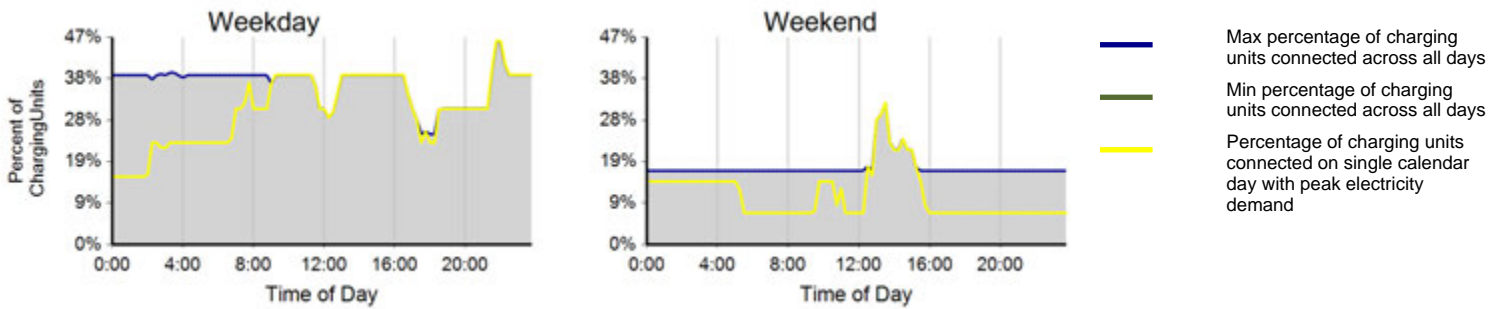
Region: Nashville, TN Metropolitan Area

Report period: July 2011 through September 2011

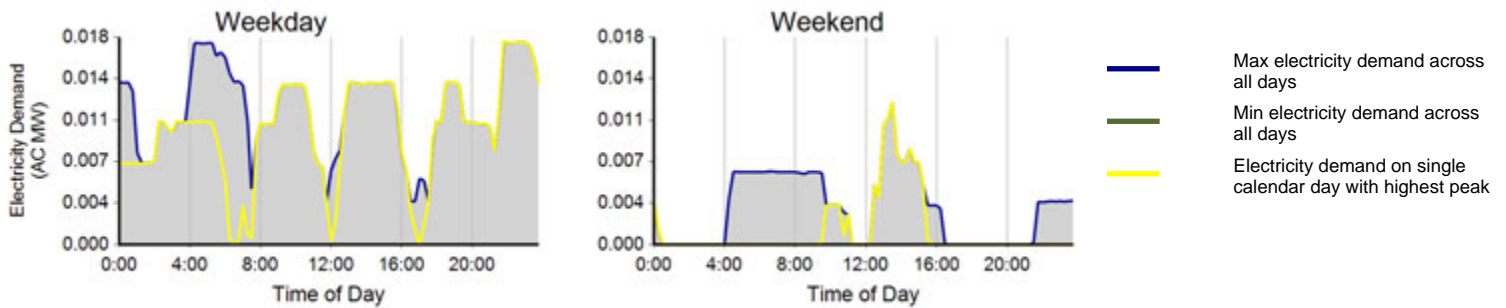
EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	130	15	145
Electricity consumed (AC MWh)	0.88	0.08	0.96
Percent of time with a vehicle connected to EVSE	9%	6%	8%
Percent of time with a vehicle drawing power from EVSE	1%	0%	1%
Average number of charging events started per EVSE per day	0.17	0.05	0.14

Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Nashville, TN Metropolitan Area

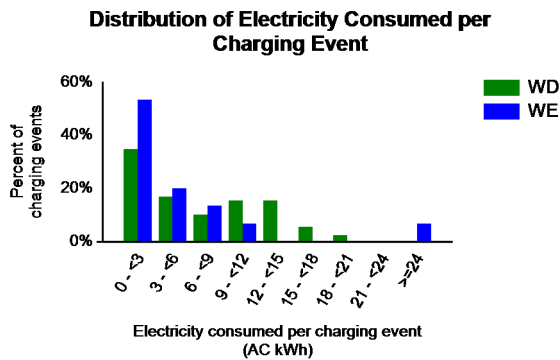
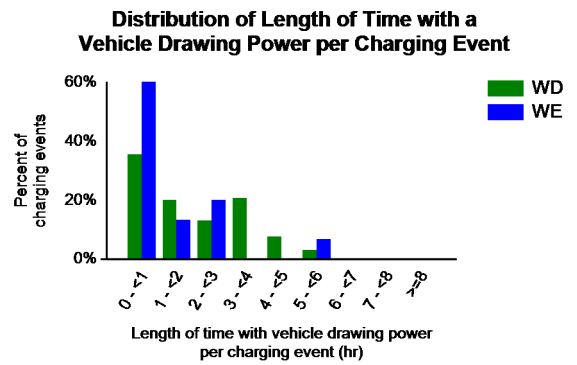
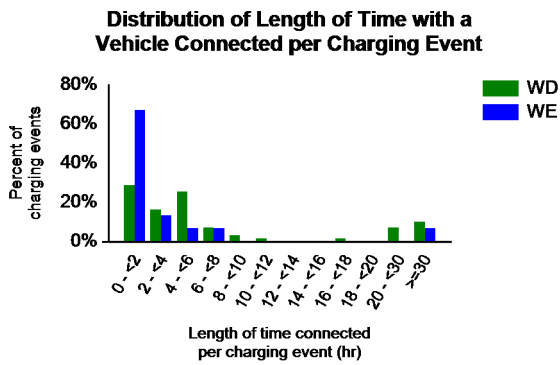
Report period: July 2011 through September 2011

Vehicles Charged

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

Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	14.5	6.5	13.7
Average length of time with vehicle drawing power per charging event (hr)	1.9	1.3	1.9
Average electricity consumed per charging event (AC kWh)	6.8	5.6	6.7



EV Project Electric Vehicle Charging Infrastructure Summary Report



Region: Washington State

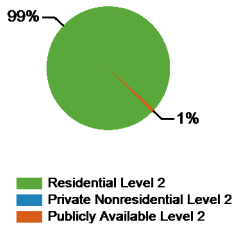
Report period: July 2011 through September 2011

Number of EV Project vehicles in region: 440

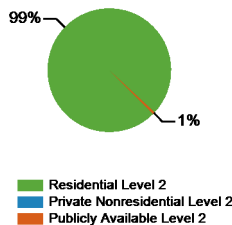
Charging Unit Usage

	Residential Level 2	Private Nonresidential Level 2	Publicly Available Level 2	Publicly Available DC Fast	Total
Number of charging units ¹	445	0	28	0	473
Number of charging events ²	23,554	0	196	0	23,750
Electricity consumed (AC MWh)	163.98	0.00	0.96	0.00	164.94
Percent of time with a vehicle connected to charging unit	29%	0%	1%	0%	28%
Percent of time with a vehicle drawing power from charging unit	6%	0%	1%	0%	5%

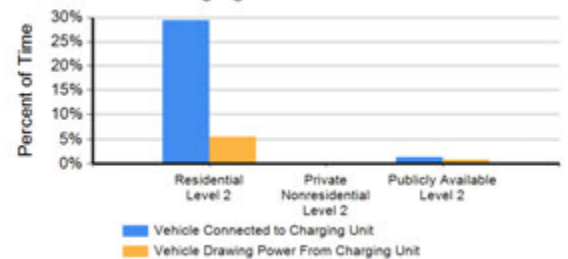
Number of Charge Events



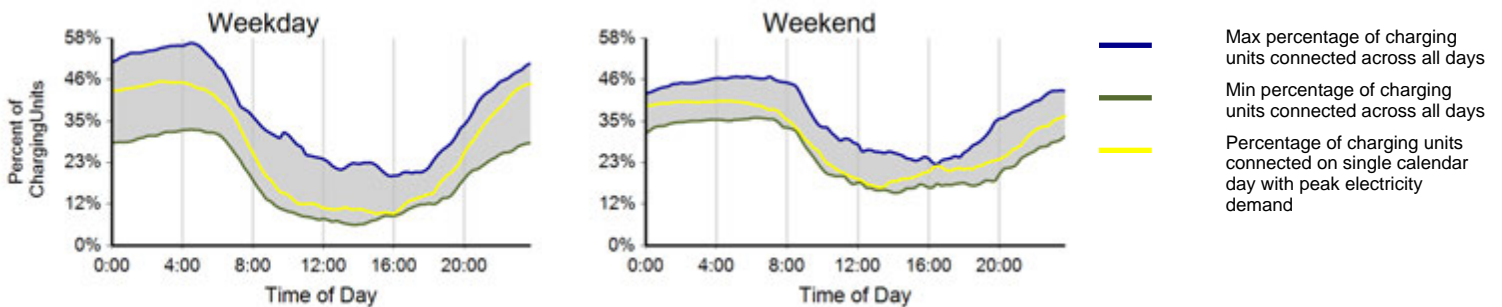
Electricity Consumed



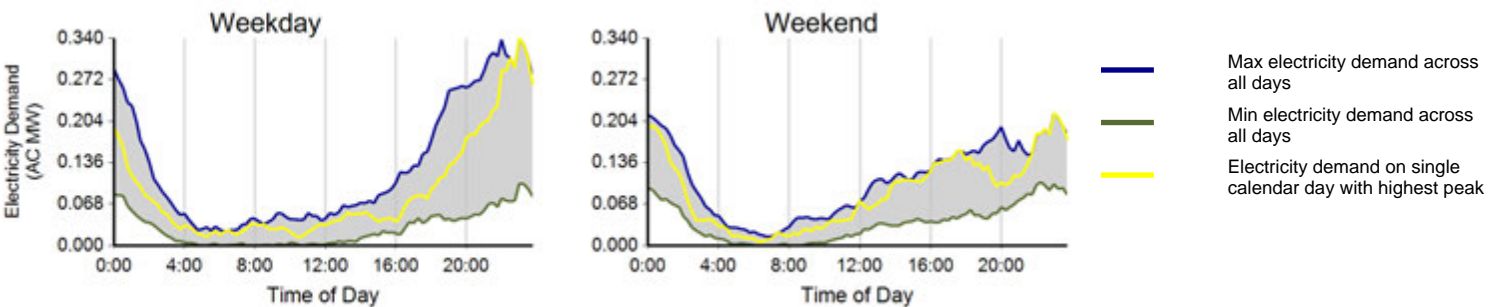
Charging Unit Utilization



Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



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

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

³ Considers the connection status of all charging units every minute

⁴ Based on 15 minute rolling average power output from all charging units

Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

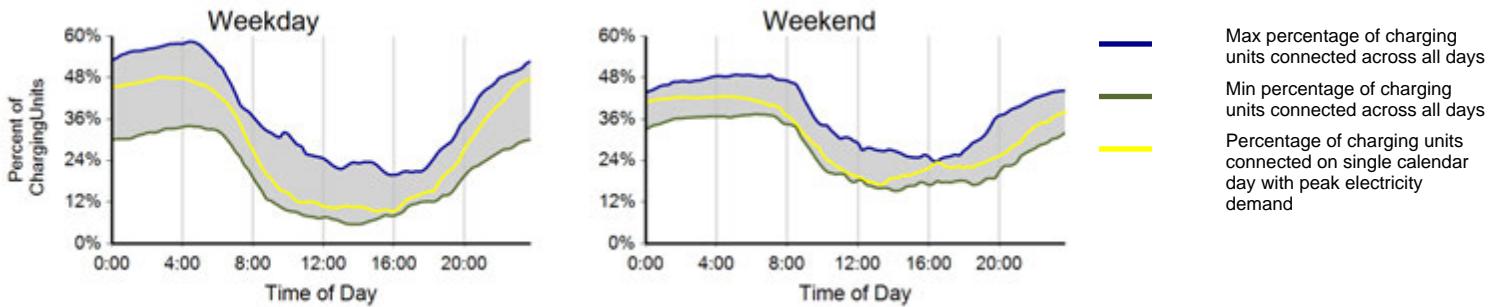
Region: Washington State

Report period: July 2011 through September 2011

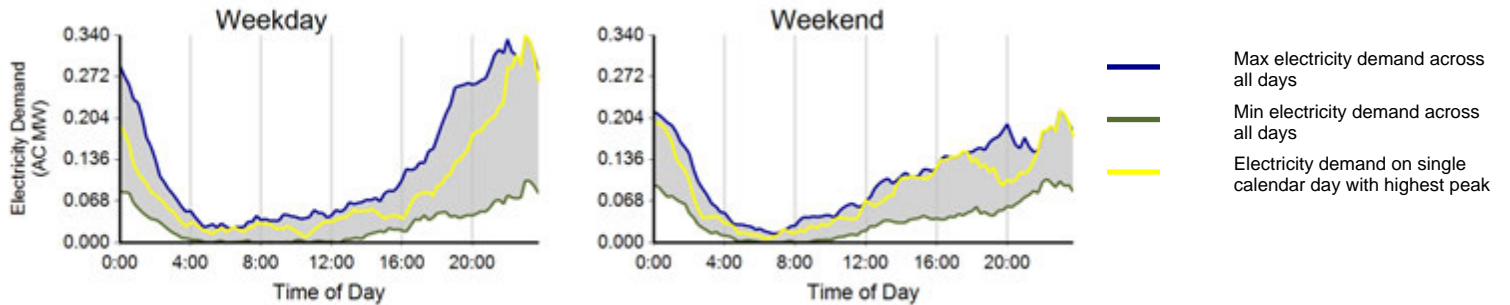
EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	17,367	6,187	23,554
Electricity consumed (AC MWh)	123.09	40.89	163.98
Percent of time with a vehicle connected to EVSE	29%	31%	29%
Percent of time with a vehicle drawing power from EVSE	6%	5%	6%
Average number of charging events started per EVSE per day	0.73	0.67	0.71

Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



Residential Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Washington State

Report period: July 2011 through September 2011

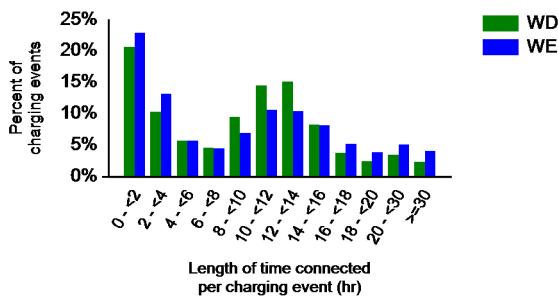
Vehicles Charged

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

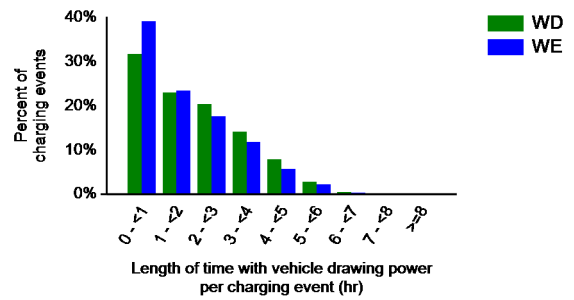
Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	10.0	10.2	10.0
Average length of time with vehicle drawing power per charging event (hr)	2.0	1.7	1.9
Average electricity consumed per charging event (AC kWh)	7.2	6.3	7.0

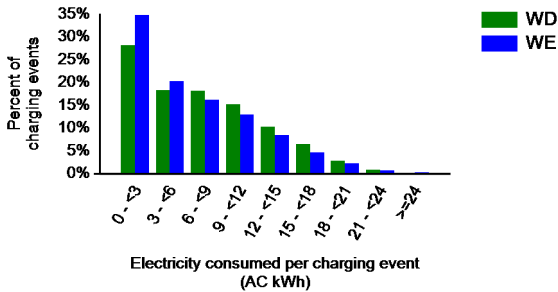
Distribution of Length of Time with a Vehicle Connected per Charging Event



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



Distribution of Electricity Consumed per Charging Event



Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

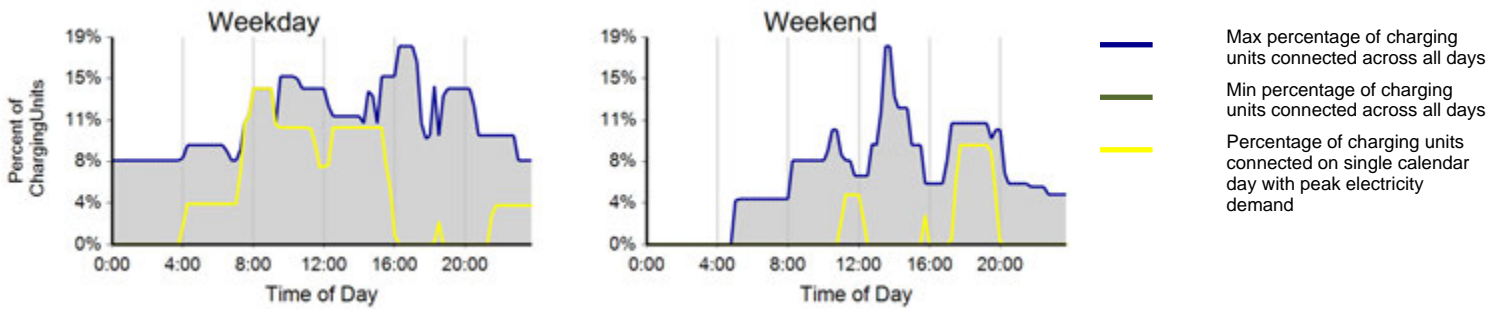
Region: Washington State

Report period: July 2011 through September 2011

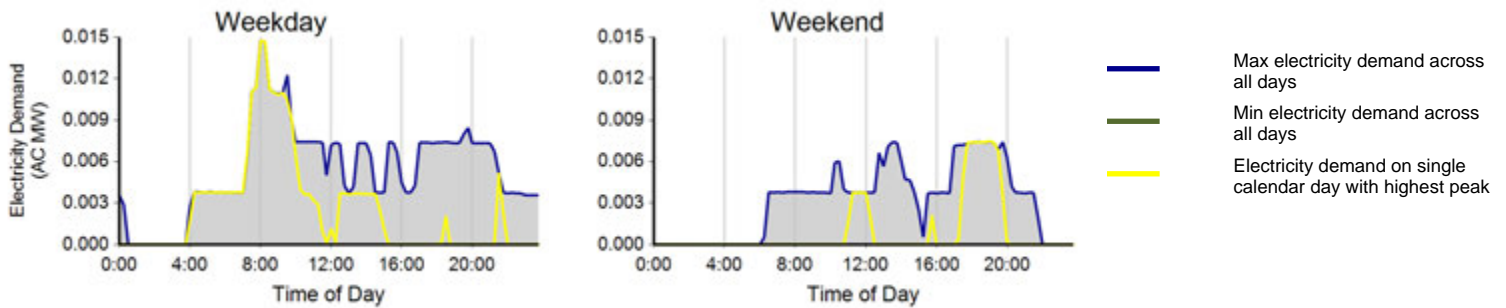
EVSE Usage

	Weekday	Weekend	Overall
Number of charging events	155	41	196
Electricity consumed (AC MWh)	0.76	0.20	0.96
Percent of time with a vehicle connected to EVSE	2%	1%	1%
Percent of time with a vehicle drawing power from EVSE	1%	1%	1%
Average number of charging events started per EVSE per day	0.15	0.11	0.14

Charging Availability: Range of Percent of Charging Units with a Vehicle Connected versus Time of Day³



Charging Demand: Range of Aggregate Electricity Demand versus Time of Day⁴



Publicly Available Level 2 Electric Vehicle Supply Equipment (EVSE)

Region: Washington State

Report period: July 2011 through September 2011

Vehicles Charged

	Nissan Leaf	Chevrolet Volt	Unknown
Percent of charging events	58%	0%	42%
Percent of electricity consumed	67%	0%	33%

Individual Charging Event Statistics

	Weekday (WD)	Weekend (WE)	Overall
Average length of time with vehicle connected per charging event (hr)	2.3	2.6	2.4
Average length of time with vehicle drawing power per charging event (hr)	1.4	1.3	1.4
Average electricity consumed per charging event (AC kWh)	4.9	4.8	4.9

